

A
TABLE
OF
Logarithms,

For Numbers Increasing in their Natural
Order, from an Unit to 10000.

With a TABLE of Artificial
SINES, TANGENTS
and SECANTS, the Ra-
dius 10,000000.

*Carefully Corrected by SAM. HEYNES,
Late Reader of Mathematicks to His
Majesty's Engineers.*

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ЕЩЕДАТ

30

СИМФОНИЯ

Либретто к опере в 3 действиях
СТИХИИ А. СИНИЦЫНА

Либретто к опере в 3 действиях
СТИХИИ А. СИНИЦЫНА
СИМФОНИЯ
СИНИЦЫНА



СИМФОНИЯ А. СИНИЦЫНА
СИНИЦЫНА

СИМФОНИЯ А. СИНИЦЫНА
СИНИЦЫНА

A TABLE of Logarithms,
from 1 to 10000.

Num Log.	Num Log.	N in Logar.
1 0.000000	34 1.531479	67 1.826075
2 0.301030	35 1.544068	68 1.832509
3 0.477121	36 1.556302	69 1.838849
4 0.602060	37 1.568202	70 1.845098
5 0.698970	38 1.579784	71 1.851258
6 0.778151	39 1.591065	72 1.857332
7 0.845098	40 1.602060	73 1.863323
8 0.903090	41 1.612784	74 1.869232
9 0.954242	42 1.623249	75 1.875061
10 1.000000	43 1.633468	76 1.880814
11 1.041393	44 1.643453	77 1.886491
12 1.079181	45 1.653212	78 1.892095
13 1.113943	46 1.662758	79 1.897627
14 1.146128	47 1.672098	80 1.903090
15 1.176091	48 1.681241	81 1.908485
16 1.204120	49 1.690196	82 1.913814
17 1.230445	50 1.698970	83 1.919078
18 1.255972	51 1.707570	84 1.924279
19 1.278754	52 1.716003	85 1.929419
20 1.301030	53 1.724276	86 1.934498
21 1.322219	54 1.732394	87 1.939519
22 1.342422	55 1.740353	88 1.944483
23 1.361729	56 1.748188	89 1.949390
24 1.380211	57 1.755875	90 1.954242
25 1.397940	58 1.763428	91 1.959041
26 1.414972	59 1.770852	92 1.963788
27 1.431364	60 1.778151	93 1.968483
28 1.447158	61 1.785330	94 1.973128
29 1.462398	62 1.792392	95 1.977724
30 1.477121	63 1.799340	96 1.982271
31 1.491362	64 1.806180	97 1.986772
32 1.505150	65 1.812943	98 1.991226
33 1.518514	66 1.819544	99 1.995635

A Table of Logarithms,

Num.	0	1	2	3	4	Diff.
100	2.000000	2.000434	2.000868	2.001301	2.001734	432
101	2.004321	2.004751	2.005180	2.005609	2.006038	428
102	2.008600	2.009026	2.009451	2.009876	2.010300	424
103	2.012837	2.013259	2.013680	2.014100	2.014520	419
104	2.017033	2.017451	2.017868	2.018284	2.018700	416
105	2.021189	2.021603	2.022016	2.022428	2.022841	412
106	2.025306	2.025715	2.026124	2.026533	2.026942	408
107	2.029384	2.029789	2.030195	2.030600	2.031004	404
108	2.033424	2.033826	2.034227	2.034628	2.035029	400
109	2.037426	2.037825	2.038223	2.038620	2.039017	396
110	2.041393	2.041787	2.042182	2.042575	2.042969	393
111	2.045323	2.045714	2.046105	2.046495	2.046885	389
112	2.049218	2.049606	2.049993	2.050380	2.050766	386
113	2.053078	2.053463	2.053846	2.054230	2.054613	382
114	2.056905	2.057286	2.057666	2.058046	2.058426	379
115	2.060698	2.061075	2.061452	2.061829	2.062206	376
116	2.064458	2.064832	2.065206	2.065580	2.065953	372
117	2.068186	2.068557	2.068928	2.069298	2.069668	369
118	2.071882	2.072250	2.072617	2.072985	2.073352	366
119	2.075547	2.075912	2.076276	2.076640	2.077004	363
120	2.079181	2.079543	2.079904	2.080266	2.080626	360
121	2.082785	2.083144	2.083503	2.083861	2.084219	357
122	2.086300	2.086716	2.087071	2.087426	2.087781	355
123	2.089905	2.090258	2.090611	2.090963	2.091315	351
124	2.093422	2.093772	2.094122	2.094471	2.094820	349
125	2.096910	2.097257	2.097604	2.097951	2.098297	346
126	2.100371	2.100715	2.101059	2.101403	2.101747	343
127	2.103804	2.104145	2.104487	2.104828	2.105169	340
128	2.107210	2.107549	2.107888	2.108227	2.108565	338
129	2.110590	2.110916	2.111262	2.111598	2.111934	335
130	2.113943	2.114277	2.114611	2.114944	2.115273	333
131	2.117271	2.117603	2.117934	2.118265	2.118595	330
132	2.120574	2.120903	2.121231	2.121560	2.121888	328
133	2.123852	2.124178	2.124504	2.124830	2.125136	325
134	2.127105	2.127429	2.127752	2.128076	2.128399	323
135	2.130334	2.130655	2.130977	2.131298	2.131619	321
136	2.133539	2.133858		2.134496	2.134814	318
137	2.136721	2.137031		2.137670	2.137987	315



from 1 to 10000,

3.

Num	5	6	7	8	9	Diff.
100	2.002166	2.002598	2.003029	2.003460	2.003891	432
101	2.006466	2.006894	2.007321	2.007748	2.008174	428
102	2.010724	2.011147	2.011570	2.011993	2.012415	424
103	2.014940	2.015360	2.015779	2.016197	2.016615	419
104	2.019116	2.019532	2.019947	2.020361	2.020775	416
105	2.023252	2.023664	2.024075	2.024486	2.024896	412
106	2.027350	2.027757	2.028164	2.028571	2.028978	408
107	2.031408	2.031812	2.032216	2.032619	2.033021	404
108	2.035430	2.035830	2.036229	2.036629	2.037028	400
109	2.039414	2.039811	2.040207	2.040602	2.040998	396
110	2.043362	2.043755	2.044148	2.044540	2.044931	393
111	2.047275	2.047664	2.048053	2.048442	2.048830	389
112	2.051152	2.051538	2.051924	2.052309	2.052694	386
113	2.054996	2.055378	2.055760	2.056142	2.056524	382
114	2.058805	2.059183	2.059563	2.059942	2.060320	379
115	2.062582	2.062958	2.063333	2.063709	2.064083	376
116	2.066326	2.066698	2.067071	2.067443	2.067814	372
117	2.070038	2.070407	2.070776	2.071145	2.071514	369
118	2.073718	2.074085	2.074451	2.074816	2.075182	366
119	2.077368	2.077731	2.078094	2.078457	2.078819	363
120	2.080987	2.081347	2.081707	2.082067	2.082426	360
121	2.084576	2.084934	2.085291	2.085647	2.086001	357
122	2.088136	2.088490	2.088845	2.089198	2.089553	355
123	2.091667	2.092018	2.092370	2.092721	2.093071	351
124	2.095169	2.095518	2.095866	2.096215	2.096562	349
125	2.098544	2.098990	2.099335	2.099681	2.100026	346
126	2.102090	2.102434	2.102777	2.103119	2.103462	343
127	2.105510	2.105851	2.106191	2.106531	2.106878	340
128	2.108903	2.109241	2.109578	2.109916	2.110253	338
129	2.112270	2.112605	2.112940	2.113275	2.113609	335
130	2.115610	2.115943	2.116276	2.116608	2.116940	333
131	2.118926	2.119256	2.119586	2.119915	2.120245	330
132	2.122216	2.122543	2.122871	2.123198	2.123525	328
133	2.125481	2.125806	2.126131	2.126456	2.126781	325
134	2.128722	2.129045	2.129368	2.129690	2.130012	323
135	2.131939	2.132260	2.132580	2.132900	2.133219	321
136	2.135133	2.135451	2.135768	2.136086	2.136403	318
137	2.138303	2.138618	2.138934	2.139249	2.139564	315

A Table of Logarithms,

Num.	0	1	2	3	4	Diff.
138	2.139879	2.140194	2.140508	2.140822	2.141136	314
139	.143015	.143327	.143639	.143951	.144263	311
140	.146128	.146438	.146748	.147058	.147367	309
141	.149219	.149527	.149835	.150142	.150449	307
142	.152288	.152594	.152900	.153205	.153510	305
143	.155336	.155640	.155943	.156246	.156549	303
144	2.158362	2.158664	2.158965	2.159266	2.159567	301
145	.161368	.161667	.161967	.162266	.162564	299
146	.164353	.164650	.164947	.165249	.165541	297
147	.167317	.167613	.167908	.168203	.168497	295
148	.170262	.170555	.170848	.171141	.171434	293
149	.173186	.173478	.173769	.174060	.174351	291
150	2.176001	2.176381	2.176670	2.176959	2.177248	289
151	.178977	.179264	.179552	.179839	.180126	287
152	.181844	.182129	.182415	.182700	.182985	285
153	.184691	.184975	.185259	.185542	.185826	283
154	.187521	.187803	.188084	.188366	.188647	281
155	.190322	.190612	.190892	.191171	.191451	279
156	2.193125	2.193403	2.193681	2.193959	2.194237	278
157	.195900	.196176	.196452	.196729	.197005	276
158	.198657	.198932	.199206	.199431	.199755	274
159	.201397	.201670	.201943	.202216	.202488	272
160	.204120	.204391	.204662	.204933	.205204	271
161	.206826	.207095	.207365	.207634	.207903	269
162	2.209515	2.209783	2.210051	2.210318	2.210586	267
163	.212188	.212454	.212720	.212986	.213252	266
164	.214844	.215109	.215373	.215638	.215902	264
165	.217484	.217747	.218010	.218273	.218535	262
166	.220168	.220370	.220631	.220892	.221153	261
167	.222716	.222976	.223236	.223496	.223755	259
168	.225309	.225568	.225826	.226084	.226342	258
169	2.227887	2.228143	2.228400	2.228657	2.228913	256
170	.230449	.230704	.230960	.231215	.231470	254
171	.232996	.233250	.233504	.233757	.234011	253
172	.235528	.235781	.236033	.236285	.236537	252
173	.238046	.238297	.238548	.238799	.239049	250
174	.240549	.240799	.241048	.241297	.241546	249
175	.243038	.243286	.243534	.243782	.244030	248

from 1 to 10000.

Num.	5	6	7	8	9	Diff.
138	2.141450	2.141763	2.142076	2.142389	2.142702	314
139	.144574	.144885	.145196	.145507	.145818	311
140	.147676	.147985	.148294	.148603	.148911	309
141	.150756	.151063	.151370	.151676	.151982	307
142	.153815	.154119	.154424	.154728	.155032	305
143	.156852	.157154	.157457	.157755	.158061	303
144	2.159868	2.160168	2.160468	2.160765	2.161068	301
145	.162863	.163161	.163459	.163757	.164055	299
146	.165838	.166134	.166430	.166726	.167022	297
147	.168792	.169086	.169380	.169674	.169968	295
148	.171725	.172019	.172311	.172603	.172895	293
149	.174641	.174932	.175227	.175517	.175802	291
150	2.177536	2.177825	2.178113	2.178401	2.178689	289
151	.180413	.180695	.180986	.181273	.181558	287
152	.183270	.183554	.183839	.184123	.184407	285
153	.186108	.186391	.186674	.186956	.187239	283
154	.188928	.189209	.189490	.189771	.190051	281
155	.191730	.192010	.192289	.192567	.192846	279
156	2.194514	2.194792	2.195069	2.195346	2.195623	278
157	.197280	.197556	.197832	.198107	.198382	276
158	.200029	.200303	.200577	.200850	.201124	274
159	.202761	.203033	.203305	.203577	.203848	272
160	.205475	.205745	.206016	.206286	.206556	271
161	.208172	.208441	.208710	.208978	.209247	269
162	2.210853	2.211120	2.211388	2.211654	2.211921	267
163	.213518	.213783	.214049	.214314	.214579	266
164	.216166	.216430	.216694	.216957	.217221	264
165	.218798	.219060	.219322	.219584	.219846	262
166	.221414	.221675	.221936	.222196	.222456	261
167	.224015	.224274	.224533	.224792	.225051	259
168	.226600	.226858	.227115	.227372	.227630	258
169	2.229170	2.229426	2.229682	2.229938	2.230193	256
170	.231724	.231979	.232233	.232488	.232742	254
171	.234264	.234517	.234770	.235023	.235276	253
172	.236789	.237041	.237292	.237544	.237795	252
173	.239299	.239549	.239800	.240050	.240299	250
174	.241795	.242044	.242293	.242541	.242798	249
175	.244277	.244524	.244772	.245030	.245266	248

A Table of Logarithms,

Num.	0	1	2	3	4	Diff.
176	2.245513	2.245759	2.246006	2.246252	2.246499	246
177	.247973	.248219	.248464	.248709	.248954	245
178	.250420	.250664	.250908	.251151	.251395	243
179	.252853	.253096	.253338	.253580	.253822	242
180	.255272	.255514	.255755	.255996	.256236	241
181	.257615	.257918	.258158	.258398	.258637	239
182	2.260071	2.260310	2.260548	2.260787	2.261025	238
183	.262451	.262688	.262925	.263162	.263399	237
184	.264818	.265054	.265290	.265525	.265764	235
185	.267172	.267406	.267641	.267875	.268110	234
186	.269513	.269746	.269980	.270213	.270446	233
187	.271842	.272074	.272306	.272538	.272770	232
188	2.274158	2.274389	2.274620	2.274850	2.275081	230
189	.276462	.276691	.276921	.277151	.277380	229
190	.278754	.278982	.279210	.279439	.279667	228
191	.281033	.281261	.281488	.281715	.281942	227
192	.283301	.283527	.283753	.283979	.284205	226
193	.285557	.285782	.286007	.286232	.286456	225
194	2.287802	2.288025	2.288245	2.288473	2.288696	223
195	.290035	.290257	.290480	.290702	.290925	222
196	.292256	.292478	.292699	.292920	.293141	221
197	.294466	.294687	.294907	.295127	.295347	220
198	.296665	.296884	.297104	.297323	.297542	219
199	.298853	.299071	.299289	.299507	.299725	218
200	2.301030	2.301247	2.301464	2.301681	2.301898	217
201	.303196	.303412	.303628	.303844	.304059	216
202	.305351	.305566	.305781	.305996	.306210	215
203	.307496	.307710	.307924	.308137	.308351	213
204	.309630	.309843	.310056	.310268	.310481	212
205	.311754	.311966	.312177	.312389	.312600	211
206	.313867	.314078	.314289	.314499	.314710	210
207	2.315970	2.316180	2.316390	2.316599	2.316809	209
208	.318063	.318272	.318481	.318689	.318898	208
209	.320146	.320354	.320562	.320769	.320977	207
210	.322219	.322426	.322633	.322839	.323046	206
211	.324282	.324488	.324694	.324899	.325105	205
212	.326336	.326541	.326745	.326950	.327154	204
213	.328380	.328583	.328787	.328991	.329194	203

from 1 to 10000.

5.

Num	5	6	7	8	9	Diff.
176	2.246745	2.24699	2.247236	2.247482	2.247728	246
177	.249198	.249443	.249687	.249932	.250176	245
178	.251638	.251881	.252125	.252367	.252610	243
179	.254064	.254306	.254548	.254790	.255031	242
180	.256477	.256718	.256958	.257198	.257439	241
181	.258877	.259116	.259355	.259594	.259833	239
182	2.261263	2.261501	2.261738	2.261976	2.262214	238
183	.263636	.263873	.264109	.264345	.264582	237
184	.265996	.266232	.266467	.266702	.266937	235
185	.268344	.268578	.268812	.269046	.269279	234
186	.270679	.270912	.271144	.271377	.271609	233
187	.273001	.273233	.273464	.273696	.273927	232
188	2.275311	2.275542	2.275772	2.276002	2.276232	230
189	.277609	.277838	.278067	.278296	.278525	229
190	.279895	.280123	.280351	.280578	.280806	228
191	.282169	.282395	.282622	.282849	.283075	227
192	.284431	.284656	.284882	.285107	.285332	226
193	.286681	.286905	.287130	.287354	.287578	225
194	2.288920	2.289143	2.289366	2.289589	2.289812	223
195	.291147	.291369	.291591	.291813	.292034	222
196	.293362	.293583	.293804	.294025	.294246	221
197	.295567	.295787	.296007	.296226	.296446	220
198	.297760	.297979	.298198	.298416	.298635	219
199	.299943	.300160	.300378	.300595	.300813	218
200	2.302114	2.302331	2.302547	2.302764	2.302980	217
201	.304275	.304490	.304706	.304921	.305136	216
202	.306425	.306639	.306854	.307068	.307282	215
203	.308564	.308778	.308991	.309204	.309417	213
204	.310693	.310906	.311118	.311330	.311542	212
205	.312812	.313023	.313324	.313445	.313656	211
206	.314920	.315130	.315340	.315550	.315760	210
207	2.317018	2.317227	2.317436	2.317645	2.317854	209
208	.319106	.319314	.319523	.319730	.319938	208
209	.321184	.321391	.321598	.321805	.322012	207
210	.323252	.323458	.323664	.323871	.324077	206
211	.325310	.325516	.325721	.325926	.326131	205
212	.327359	.327563	.327767	.327972	.328176	204
213	.329398	.329601	.329804	.330008	.330211	203

A Table of Logarithms,

Num	0	1	2	3	4	Dift.
214	2.330414	2.330617	2.330819	2.331022	2.331225	202
215	.332438	.332640	.332842	.333044	.333246	202
216	.334454	.334655	.334856	.335056	.335257	201
217	.336460	.336660	.336860	.337060	.337260	200
218	.338456	.338656	.338855	.339054	.339253	199
219	.340444	.340642	.340840	.341039	.341237	198
220	2.342423	2.342620	2.342817	2.343014	2.343212	197
221	.344392	.344589	.344785	.344981	.345178	196
222	.346353	.346549	.346744	.346939	.347135	195
223	.348305	.348500	.348694	.348889	.349083	194
224	.350248	.350442	.350636	.350829	.351023	193
225	.352182	.352375	.352568	.352761	.352954	193
226	2.354108	2.354301	2.354493	2.354684	2.354876	192
227	.356026	.356217	.356408	.356599	.356790	191
228	.357935	.358125	.358316	.358506	.358696	190
229	.359835	.360025	.360215	.360404	.360593	189
230	.361728	.361917	.362105	.362294	.362482	188
231	.363612	.363800	.363988	.364176	.364363	188
232	2.365488	2.365675	2.365862	2.366049	2.366236	187
233	.367356	.367542	.367728	.367915	.368101	186
234	.369216	.369401	.369587	.369772	.369958	185
235	.371068	.371253	.371437	.371622	.371806	184
236	.372912	.373096	.373280	.373464	.373647	184
237	.374748	.374931	.375115	.375298	.375481	183
238	2.376577	2.376759	2.376942	2.377124	2.377306	182
239	.378398	.378580	.378761	.378943	.379124	181
240	.380211	.380392	.380573	.380754	.380934	181
241	.382017	.382197	.382377	.382557	.382737	180
242	.383815	.383995	.384174	.384353	.384533	179
243	.385606	.385785	.385964	.386142	.386321	178
244	.387390	.387568	.387746	.387923	.388101	178
245	2.389166	2.389343	2.389520	2.389967	2.389874	177
246	.390935	.391112	.391288	.391464	.391641	176
247	.392697	.392873	.393048	.393224	.393400	176
248	.394452	.394627	.394802	.394977	.395152	175
249	.396195	.396374	.396548	.396722	.396896	174
250	.397940	.398114	.398287	.398461	.398634	173
251	.399674	.399847	.400020	.400192	.400365	173

from 1 to 10000.

Num	5	6	7	8	9	Dift.
214	2.331427	2.331629	2.331832	2.332034	2.332230	202
215	.333447	.333649	.333850	.334051	.334253	202
216	.335458	.335658	.335859	.336059	.336259	201
217	.337459	.337659	.337858	.338058	.338257	200
218	.339451	.339650	.339849	.340047	.340246	199
219	.341434	.341632	.341830	.342028	.342225	198
220	2.343409	2.343605	2.343802	2.343999	2.344195	197
221	.345374	.345570	.345766	.345961	.346157	196
222	.347330	.347525	.347720	.347915	.348110	195
223	.349277	.349472	.349660	.349860	.350054	194
224	.351216	.351500	.351603	.351796	.351989	193
225	.353146	.353339	.353532	.353724	.353916	193
226	2.355068	2.355260	2.355451	2.355643	2.355834	192
227	.356981	.357172	.357363	.357554	.357744	191
228	.358886	.359076	.359266	.359456	.359646	190
229	.360783	.360972	.361161	.361350	.361539	189
230	.362671	.362859	.363048	.363236	.363424	188
231	.364551	.364739	.364926	.365113	.365301	188
232	2.366423	2.366700	2.366796	2.366983	2.367169	187
233	.368287	.368473	.368659	.368844	.369030	186
234	.370143	.370328	.370513	.370698	.370883	185
235	.371991	.372175	.372360	.372544	.372728	184
236	.373831	.374015	.374198	.374382	.374565	184
237	.375664	.375846	.376029	.376212	.376394	183
238	2.377483	2.377670	2.377852	2.378034	2.378216	182
239	.379305	.379487	.379668	.379849	.380030	181
240	.381115	.381296	.381476	.381656	.381837	181
241	.382917	.383097	.383277	.383456	.383636	180
242	.384712	.384891	.385070	.385249	.385427	179
243	.386499	.386677	.386855	.387034	.387212	178
244	.388279	.388456	.388634	.388811	.388989	178
245	2.390051	2.390228	2.390405	2.390582	2.390758	177
246	.391817	.391993	.392169	.392345	.392521	176
247	.393575	.393751	.393926	.394101	.394276	176
248	.395326	.395501	.395676	.395850	.396025	175
249	.397070	.397245	.397418	.397592	.397766	174
250	.398808	.398981	.399154	.399327	.399501	173
251	.400538	.400711	.400883	.401056	.401228	172

A Table of Logarithms,

Num	0	1	2	3	4	Diff.
252	2.401400	2.401573	2.401745	2.401917	2.402089	172
253	.403120	.403292	.403464	.403635	.403807	171
254	.404834	.405005	.405175	.405346	.405517	171
255	.406540	.406710	.406881	.407051	.407221	170
256	.408240	.408400	.408579	.408749	.408918	169
257	.409933	.410102	.410271	.410440	.410608	169
258	2.411620	2.411788	2.411956	2.412124	2.412292	168
259	.413300	.413467	.413635	.413802	.413970	167
260	.414973	.415140	.415307	.415474	.415641	167
261	.416640	.416807	.416973	.417139	.417306	166
262	.418301	.418467	.418633	.418798	.418964	165
263	.419956	.420121	.420286	.420451	.420616	165
264	2.421604	2.421768	2.421933	2.422097	2.422261	164
265	.423246	.423410	.423573	.423737	.423901	164
266	.424882	.425045	.425208	.425371	.425534	163
267	.426511	.426674	.426836	.426999	.427161	162
268	.428135	.428297	.428459	.428621	.428782	162
269	.429752	.429914	.430075	.430236	.430398	161
270	2.431364	2.431525	2.431685	2.431846	2.432007	161
271	.432969	.433129	.433290	.433450	.433610	160
272	.434569	.434728	.434888	.435048	.435207	159
273	.436163	.436322	.436481	.436640	.436798	159
274	.437751	.437909	.438067	.438226	.438384	158
275	.439333	.439491	.439648	.439806	.439964	158
276	2.440909	2.441066	2.441224	2.441381	2.441538	157
277	.442480	.442636	.442793	.442950	.443106	157
278	.444045	.444201	.444357	.444513	.444669	156
279	.445604	.445760	.445915	.446071	.446226	155
280	.447158	.447313	.447468	.447623	.447778	155
281	.448706	.448861	.449015	.449170	.449324	154
282	.450259	.450403	.450557	.450711	.450865	154
283	2.451786	2.451940	2.452093	2.452247	2.452400	153
284	.453318	.453471	.453624	.453777	.453930	153
285	.454845	.454997	.455149	.455302	.455454	152
286	.456366	.456518	.456670	.456821	.456973	152
287	.457882	.458033	.458184	.458336	.458487	151
288	.459392	.459543	.459694	.459845	.459995	151
289	.460898	.461048	.461198	.461348	.461498	150

from 1 to 10000.

Num	5	6	7	8	9	Diff.
252	2.402261	2.402433	2.402605	2.402777	2.402949	172
253	.403978	.404149	.404320	.404492	.404663	171
254	.405688	.405858	.406029	.406199	.406370	171
255	.407391	.407561	.407731	.407900	.408070	170
256	.409087	.409257	.409426	.409595	.409764	169
257	.410777	.410946	.411114	.411283	.411451	169
258	2.412160	2.412628	2.412796	2.412964	2.413132	168
259	.414137	.414305	.414472	.414639	.414806	167
260	.415808	.415974	.416141	.416308	.416474	167
261	.417472	.417638	.417804	.417970	.418135	166
262	.419129	.419295	.419460	.419625	.419791	165
263	.420781	.420945	.421110	.421275	.421439	165
264	2.422426	2.422590	2.422754	2.422918	2.423082	164
265	.424064	.424228	.424391	.424555	.424718	164
266	.425697	.425860	.426023	.426186	.426349	163
267	.427324	.427486	.427648	.427811	.427973	162
268	.428944	.429106	.429268	.429429	.429591	162
269	.430559	.430720	.430881	.431042	.431203	161
270	2.432167	2.432328	2.432488	2.432649	2.432809	166
271	.433770	.433930	.434090	.434249	.434409	160
272	.435366	.435526	.435685	.435844	.436003	159
273	.436957	.437116	.437275	.437433	.437592	159
274	.438542	.438700	.438859	.439017	.439175	158
275	.440122	.440279	.440437	.440594	.440752	158
276	2.441695	2.441852	2.442009	2.442166	2.442323	157
277	.443263	.443419	.443576	.443732	.443888	157
278	.444825	.444981	.445137	.445293	.445448	156
279	.446382	.446537	.446692	.446848	.447003	155
280	.447933	.448088	.448242	.448397	.448552	155
281	.449478	.449633	.449787	.449941	.450095	154
282	.451018	.451172	.451326	.451479	.451633	154
283	2.452553	2.452706	2.452859	2.453012	2.453165	153
284	.454082	.454235	.454387	.454540	.454692	153
285	.455606	.455758	.455910	.456062	.456214	152
286	.457125	.457276	.457428	.457579	.457730	152
287	.458638	.458789	.458940	.459091	.459242	151
288	.460146	.460296	.460447	.460597	.460747	151
289	.461649	.461799	.461948	.462098	.462248	150

A Table of Logarithms,

Num	0	1	2	3	4	Diff.
290	2.462398	2.462548	2.462697	2.462847	2.462997	150
291	.463893	.464042	.464191	.464340	.464489	149
292	.465383	.465532	.465680	.465829	.465977	149
293	.466868	.467016	.467164	.467312	.467460	148
294	.468347	.468495	.468643	.468790	.468938	147
295	.469822	.469969	.470116	.470263	.470410	147
296	2.471292	2.471438	2.471585	2.471732	2.471878	146
297	.472756	.472903	.473049	.473195	.473341	146
298	.474216	.474362	.474508	.474653	.474799	146
299	.475671	.475811	.475962	.476107	.476252	145
300	.477121	.477266	.477411	.477555	.477700	145
301	.478566	.478711	.478855	.478999	.479143	144
302	2.480007	2.480151	2.480294	2.480438	2.480582	144
303	.481443	.481586	.481729	.481872	.482016	143
304	.482874	.483016	.483159	.483302	.483445	143
305	.484300	.484442	.484584	.484727	.484869	142
306	.485721	.485863	.486005	.486147	.486289	142
307	.487138	.487280	.487421	.487563	.487704	141
308	2.488551	2.488692	2.488833	2.488973	2.489114	141
309	.489958	.490099	.490239	.490380	.490520	140
310	.491362	.491502	.491642	.491782	.491922	140
311	.492760	.492900	.493040	.493179	.493319	139
312	.494155	.494294	.494433	.494572	.494711	139
313	.495544	.495683	.495822	.495960	.496099	139
314	2.496930	2.497068	2.497206	2.497344	2.497482	138
315	.498311	.498448	.498586	.498724	.498862	138
316	.499687	.499824	.499962	.500099	.500236	137
317	.501059	.501196	.501333	.501470	.501607	137
318	.502427	.502564	.502700	.502837	.502973	136
319	.503791	.503927	.504063	.504199	.504335	136
320	.505150	.505286	.505421	.505557	.505692	136
321	2.506505	2.506640	2.506775	2.506911	2.507046	135
322	.507856	.507991	.508125	.508260	.508395	135
323	.509202	.509337	.509471	.509606	.509740	134
324	.510545	.510679	.510813	.510947	.511081	134
325	.511883	.512017	.512150	.512284	.512417	133
326	.513218	.513351	.513484	.513617	.513750	133
327	.514548	.514680	.514813	.514946	.515079	133

from 1 to 10000.

Num	5	6	7	8	9	Diff.
290	2.463146	2.463296	2.463445	2.463594	2.463744	150
291	.464639	.464787	.464936	.465085	.465234	149
292	.466126	.466274	.466423	.466571	.466719	149
293	.467608	.467756	.467904	.468052	.468200	148
294	.469085	.469233	.469380	.469527	.469675	147
295	.470557	.470704	.470851	.470998	.471145	147
296	2.472025	2.472171	2.472317	2.472464	2.472610	146
297	.473487	.473633	.473779	.473925	.474070	146
298	.474944	.475090	.475235	.475381	.475526	146
299	.476397	.476542	.476687	.476832	.476976	145
300	.477844	.477989	.478133	.478278	.478422	145
301	.479287	.479431	.479575	.479719	.479863	144
302	2.480725	2.480869	2.481012	2.481156	2.481299	144
303	.482159	.482302	.482445	.482588	.482731	143
304	.483587	.483730	.483872	.484015	.484157	143
305	.485011	.485153	.485295	.485437	.485579	142
306	.486430	.486572	.486714	.486855	.486997	142
307	.487845	.487986	.488127	.488269	.488410	141
308	2.489255	2.489396	2.489537	2.489677	2.489818	141
309	.490661	.490801	.490941	.491081	.491222	140
310	.492062	.492201	.492341	.492481	.492621	140
311	.493458	.493597	.493737	.493876	.494015	139
312	.494850	.494989	.495128	.495267	.495406	139
313	.496237	.496376	.496514	.496653	.496791	139
314	2.497621	2.497759	2.497897	2.498035	2.498173	138
315	.498999	.499137	.499275	.499412	.499550	138
316	.500374	.500511	.500648	.500785	.500922	137
317	.501744	.501880	.502017	.502154	.502290	137
318	.503109	.503246	.503382	.503518	.503654	136
319	.504471	.504607	.504743	.504878	.505014	136
320	.505828	.505963	.506099	.506234	.506370	136
321	2.507181	2.507316	2.507451	2.507586	2.507721	135
322	.508530	.508664	.508799	.508933	.509068	135
323	.509874	.510008	.510143	.510277	.510411	134
324	.511215	.511348	.511482	.511616	.511750	134
325	.512551	.512684	.512818	.512951	.513084	133
326	.513883	.514016	.514149	.514282	.514415	133
327	.515211	.515344	.515476	.515609	.515741	133

A Table of Logarithms,

Num	0	1	2	3	4	Diff
328	2.515874	2.516006	2.516139	2.516271	2.516403	132
329	.517196	.517328	.517460	.517592	.517724	132
330	.518514	.518645	.518777	.518909	.519040	131
331	.519828	.519959	.520090	.520221	.520352	131
332	.521138	.521269	.521400	.521530	.521661	131
333	.522444	.522575	.522705	.522835	.522966	130
334	2.523746	2.523876	2.524006	2.524136	2.524266	130
335	.525045	.525174	.525304	.525433	.525563	129
336	.526339	.526468	.526598	.526727	.526856	129
337	.52763c	.527755	.527888	.528016	.528145	129
338	.528917	.529045	.529174	.529302	.529430	128
339	.530200	.530328	.530456	.530584	.530712	128
340	2.531479	2.531607	2.531734	2.531862	2.531989	128
341	.532754	.532882	.533009	.533136	.533263	127
342	.534026	.534153	.534280	.534407	.534534	127
343	.535294	.535421	.535547	.535674	.535800	126
344	.536558	.536685	.536811	.536937	.537063	126
345	.537819	.537945	.538071	.538197	.538322	126
346	2.539076	2.539202	2.539327	2.539452	2.539578	125
347	.540329	.540455	.540580	.540705	.540830	125
348	.541579	.541704	.541829	.541953	.542078	125
349	.542825	.542950	.543074	.543199	.543323	124
350	.544068	.544192	.544316	.544440	.544564	124
351	.545307	.545431	.545554	.545678	.545802	124
352	2.546543	2.546666	2.546789	2.546913	2.547036	123
353	.547775	.547898	.548021	.548144	.548266	123
354	.549003	.549126	.549249	.549371	.549494	123
355	.550228	.550351	.550473	.550595	.550717	122
356	.551450	.551572	.551694	.551816	.551938	122
357	.552668	.552790	.552911	.553033	.553154	121
358	.553883	.554004	.554126	.554247	.554368	121
359	2.555094	2.555215	2.555336	2.555457	2.555578	121
360	.556302	.556423	.556544	.556664	.556785	120
361	.557507	.557627	.557748	.557868	.557988	120
362	.558709	.558828	.558948	.559068	.559188	120
363	.559907	.560026	.560146	.560265	.560385	119
364	.561191	.561221	.561340	.561459	.561578	119
365	.562293	.562412	.562531	.562650	.562768	119

from 1 to 10000.

Num	5	6	7	8	9	Diff.
328	2.516535	2.516668	2.516800	2.516932	2.517064	132
329	.517855	.517987	.518119	.518251	.518382	132
330	.519171	.519303	.519434	.519565	.519697	131
331	.520483	.520614	.520745	.520876	.521007	131
332	.521792	.521922	.522053	.522183	.522314	131
333	.523096	.523226	.523356	.523486	.523616	130
334	2.524396	2.524526	2.524656	2.524785	2.524915	130
335	.525992	.525822	.525951	.526081	.526210	129
336	.526985	.527114	.527243	.527372	.527501	129
337	.528274	.528402	.528531	.528660	.528788	128
338	.529559	.529687	.529815	.529943	.530072	128
339	.530840	.530968	.531095	.531223	.531351	128
340	2.532117	2.532245	2.532372	2.532500	2.532627	128
341	.533391	.533518	.533645	.533772	.533899	127
342	.534661	.534787	.534914	.535041	.535167	127
343	.535927	.536053	.536179	.536306	.536432	126
344	.537189	.537315	.537441	.537567	.537693	126
345	.538448	.538574	.538699	.538825	.538951	126
346	2.539704	2.539828	2.539954	2.540079	2.540204	125
347	.540955	.541080	.541205	.541330	.541454	125
348	.542203	.542327	.542452	.542576	.542701	125
349	.543447	.543571	.543696	.543820	.543944	124
350	.544688	.544812	.544936	.545060	.545183	124
351	.545925	.546049	.546172	.546296	.546419	124
352	2.547159	2.547282	2.547405	2.547529	2.547652	123
353	.548389	.548512	.548635	.548758	.548881	123
354	.549616	.549739	.549861	.549984	.550106	123
355	.550840	.550962	.551084	.551206	.551328	122
356	.552059	.552181	.552303	.552425	.552546	122
357	.553276	.553397	.553519	.553640	.553762	121
358	.554489	.554610	.554731	.554852	.554973	121
359	2.555699	2.555820	2.555940	2.556061	2.556182	121
360	.556909	.557026	.557146	.557266	.557387	120
361	.558108	.558228	.558348	.558469	.558589	120
362	.559308	.559428	.559548	.559667	.559787	120
363	.560504	.560624	.560743	.560863	.560982	119
364	.561697	.561817	.561936	.562055	.562174	119
365	.562887	.563006	.563125	.563244	.563362	119

A Table of Logarithms,

Num.	0	1	2	3	4	Diff.
366	2.563481	2.563600	2.563718	2.563837	2.563955	119
367	.564666	.564784	.564903	.565021	.565139	118
368	.565848	.565966	.566084	.566202	.566320	118
369	.567026	.567144	.567262	.567379	.567497	118
370	.568202	.568319	.568436	.568554	.568671	117
371	.569374	.569491	.569608	.569725	.569842	117
372	2.570543	2.570660	2.570776	2.570893	2.571010	117
373	.571709	.571825	.571942	.572058	.572174	116
374	.572872	.572988	.573104	.573220	.573336	116
375	.574031	.574147	.574263	.574379	.574494	116
376	.575188	.575303	.575419	.575534	.575650	115
377	.576341	.576456	.576572	.576687	.576802	115
378	2.577492	2.577607	2.577721	2.577836	2.577951	115
379	.578639	.578754	.578868	.578983	.579097	114
380	.579784	.579898	.580012	.580126	.580240	114
381	.580925	.581039	.581153	.581267	.581381	114
382	.582063	.582177	.582291	.582404	.582518	114
383	.583199	.583312	.583425	.583539	.583652	113
384	2.584331	2.584444	2.584557	2.584670	2.584783	113
385	.585461	.585573	.585686	.585799	.585912	113
386	.586587	.586700	.586812	.586925	.587037	112
387	.587711	.587823	.587935	.588047	.588160	112
388	.588832	.588944	.589055	.589167	.589279	112
389	.589950	.590061	.590173	.590284	.590396	112
390	2.591065	2.591176	2.591287	2.591398	2.591510	111
391	.592177	.592288	.592399	.592510	.592621	111
392	.593286	.593397	.593508	.593618	.593729	111
393	.594392	.594503	.594613	.594724	.594834	110
394	.595496	.595606	.595717	.595827	.595937	110
395	.596597	.596707	.596817	.596927	.597037	110
396	.597695	.597805	.597914	.598024	.598134	110
397	2.598790	2.598900	2.599009	2.599119	2.599228	109
398	.599883	.599992	.600101	.600210	.600319	109
399	.600973	.601082	.601190	.600299	.601408	109
400	.602060	.602168	.602277	.602386	.602494	108
401	.603144	.603253	.603361	.603469	.603577	108
402	.604226	.604334	.604442	.604550	.604658	108
403	.605305	.605413	.605520	.605628	.605736	108

from 1 to 10000.

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Num	5	6	7	8	9	Diff
366	2.564074	2.564192	2.564311	2.564429	2.564548	119
367	.565257	.565375	.565494	.565612	.565730	118
368	.566437	.566555	.566673	.566791	.566909	118
369	.567614	.567732	.567849	.567967	.568084	118
370	.568788	.568905	.569023	.569140	.569257	117
371	.569959	.570076	.570193	.570309	.570426	117
372	2.571126	2.571243	2.571359	2.571476	2.571592	117
373	.572291	.572407	.572523	.572639	.572755	116
374	.573452	.573568	.573684	.573800	.573915	116
375	.574610	.574726	.574841	.574957	.575072	116
376	.575765	.575880	.575996	.576111	.576226	115
377	.576917	.577032	.577147	.577262	.577377	115
378	2.578066	2.578181	2.578295	2.578410	2.578525	115
379	.579212	.579326	.579441	.579555	.579669	114
380	.580355	.580469	.580583	.580697	.580811	114
381	.581495	.581608	.581722	.581836	.581950	114
382	.582631	.582745	.582858	.582972	.583085	114
383	.583765	.583879	.583992	.584105	.584218	113
384	2.584896	2.585009	2.585122	2.585235	2.585348	113
385	.586024	.586137	.586250	.586362	.586475	113
386	.587149	.587262	.587374	.587486	.587599	112
387	.588272	.588384	.588496	.588608	.588720	112
388	.589391	.589503	.589614	.589726	.589838	112
389	.590507	.590619	.590730	.590842	.590953	112
390	2.591621	2.591732	2.591843	2.591955	2.592066	111
391	.592732	.592843	.592954	.593064	.593175	111
392	.593840	.593950	.594061	.594171	.594282	111
393	.594945	.595055	.595165	.595276	.595386	110
394	.596047	.596157	.596267	.596377	.596487	110
395	.597146	.597256	.597366	.597476	.597585	110
396	.598243	.598353	.598462	.598572	.598681	110
397	2.599337	2.599446	2.599556	2.599665	2.599774	109
398	.600428	.600537	.600646	.600755	.600864	109
399	.601517	.601625	.601734	.601843	.601951	109
400	.602602	.602711	.602819	.602928	.603036	108
401	.603685	.603794	.603902	.604010	.604118	108
402	.604766	.604874	.604982	.605099	.605197	108
403	.605843	.605951	.606059	.606166	.606274	108

A Table of Logarithms,

Num	0	1	2	3	4	Diff.
404	2.606381	2.606489	2.606596	2.606704	2.606811	107
405	.607455	.607562	.607669	.607777	.607884	107
406	.608526	.608633	.608740	.608847	.608954	107
407	.609594	.609701	.609808	.609914	.610021	107
408	.610660	.610767	.610873	.610979	.611086	106
409	.611723	.611829	.611936	.612042	.612148	106
410	2.612784	2.612890	2.612996	2.613102	2.613207	106
411	.613842	.613947	.614053	.614159	.614264	106
412	.614897	.615003	.615108	.615223	.615319	105
413	.615950	.616055	.616160	.616265	.616370	105
414	.617000	.617105	.617210	.617315	.617420	105
415	.618048	.618153	.618257	.618362	.618466	105
416	2.619093	2.619198	2.619302	2.619406	2.619511	104
417	.620136	.620240	.620344	.620448	.620552	104
418	.621176	.621280	.621384	.621488	.621592	104
419	.622214	.622318	.622421	.622525	.622628	104
420	.623249	.623353	.623456	.623559	.623663	103
421	.624282	.624385	.624488	.624591	.624694	103
422	2.625312	2.625415	2.625518	2.625621	2.625724	103
423	.626340	.626443	.626546	.626648	.626751	103
424	.627366	.627468	.627571	.627673	.627775	102
425	.628389	.628491	.628593	.628695	.628797	102
426	.629410	.629511	.629613	.629715	.629817	102
427	.630428	.630529	.630631	.630733	.630834	102
428	2.631444	2.631545	2.631647	2.631748	2.631849	101
429	.632457	.632558	.632660	.632761	.632862	101
430	.633468	.633569	.633670	.633771	.633872	100
431	.634477	.634578	.634679	.634779	.634880	100
432	.635484	.635584	.635685	.635785	.635886	100
433	.636488	.636588	.636688	.636789	.636889	100
434	.637490	.637590	.637690	.637790	.637890	99
435	2.638489	2.638589	2.638689	2.638789	2.638888	99
436	.639486	.639586	.639686	.639785	.639885	99
437	.640481	.640581	.640680	.640779	.640879	99
438	.641474	.641573	.641672	.641771	.641870	99
439	.642464	.642563	.642662	.642761	.642860	99
440	.643453	.643551	.643650	.643749	.643847	98
441	.644439	.644537	.644635	.644734	.644832	98

from 1 to 10000.

NU ^{BD}	5	6	7	8	9	Diff.
404	2.606918	2.607026	2.607133	2.607240	2.607348	107
405	.607991	.608098	.608205	.608312	.608419	107
406	.609060	.609167	.609274	.609381	.609488	107
407	.610128	.610234	.610341	.610447	.610554	107
408	.611192	.611298	.611405	.611511	.611617	106
409	.612254	.612360	.612466	.612572	.612678	106
410	2.613313	2.613419	2.613525	2.613630	2.613736	106
411	.614370	.614475	.614581	.614686	.614792	106
412	.615424	.615529	.615634	.615740	.615845	105
413	.616475	.616580	.616685	.616790	.616895	105
414	.617524	.617629	.617734	.617839	.617943	105
415	.618571	.618675	.618780	.618884	.618989	105
416	2.619615	2.619719	2.619823	2.619928	2.620032	104
417	.620656	.620760	.620864	.620968	.621072	104
418	.621695	.621799	.621903	.622007	.622110	104
419	.622732	.622835	.622939	.623042	.623146	104
420	.623766	.623869	.623972	.624076	.624179	103
421	.624798	.624901	.625004	.625107	.625209	103
422	.625827	.625929	.626032	.626135	.626238	103
423	.626853	.626956	.627058	.627161	.627263	103
424	.627878	.627980	.628082	.628184	.628287	102
425	.628900	.629002	.629104	.629206	.629308	102
426	.629919	.630021	.630123	.630224	.630326	102
427	.630936	.631038	.631139	.631241	.631342	102
428	2.631951	2.632052	2.632153	2.632255	2.632356	101
429	.632963	.633064	.633165	.633266	.633367	101
430	.633973	.634074	.634175	.634276	.634376	100
431	.634981	.635081	.635182	.635283	.635383	100
432	.635986	.636086	.636187	.636287	.636388	100
433	.636989	.637089	.637189	.637289	.637390	100
434	.637990	.638090	.638190	.638289	.638389	99
435	2.638988	2.639088	2.639188	2.639287	2.639387	99
436	.639984	.640084	.640183	.640283	.640382	99
437	.640978	.641077	.641176	.641276	.641375	99
438	.641970	.642069	.642168	.642267	.642366	99
439	.642959	.643058	.643156	.643255	.643354	99
440	.643946	.644044	.644143	.644242	.644340	98
441	.644931	.645029	.645127	.645226	.645324	98

A Table of Logarithms,

Num	0	1	2	3	4	Diff.
442	2.645422	2.645520	2.645619	2.645717	2.645815	98
443	.646404	.646502	.646600	.646698	.646796	98
444	.647383	.647481	.647578	.647676	.647774	98
445	.648360	.648458	.648555	.648653	.648750	97
446	.649335	.649432	.649530	.649627	.649724	97
447	.650307	.650405	.650502	.650599	.650696	97
448	2.651278	2.651375	2.651472	2.651569	2.651666	97
449	.652246	.652343	.652440	.652536	.652633	97
450	.653212	.653309	.653405	.653502	.653598	96
451	.654176	.654273	.654369	.654465	.654562	96
452	.655138	.655234	.655331	.655427	.655523	96
453	.656098	.656194	.656290	.656386	.656481	96
454	2.657056	2.657151	2.657247	2.657343	2.657438	96
455	.658011	.658107	.658202	.658298	.658393	95
456	.658965	.659060	.659155	.659250	.659346	95
457	.659916	.660011	.660106	.660201	.660296	95
458	.660865	.660960	.661055	.661150	.661245	95
459	.661813	.661907	.662002	.662096	.662191	95
460	2.662758	2.662852	2.662947	2.663041	2.663135	94
461	.663701	.663795	.663889	.663983	.664078	94
462	.664642	.664736	.664830	.664924	.665018	94
463	.665581	.665675	.665768	.665862	.665956	94
464	.666518	.666612	.666705	.666799	.666892	94
465	.667453	.667546	.667640	.667733	.667826	93
466	2.668386	2.668479	2.668572	2.668665	2.668758	93
467	.669317	.669410	.669503	.669596	.669689	93
468	.670246	.670339	.670431	.670524	.670617	93
469	.671173	.671265	.671358	.671451	.671543	93
470	.672098	.672190	.672283	.672375	.672467	92
471	.673021	.673113	.673205	.673297	.673390	92
472	.673942	.674034	.674126	.674218	.674310	92
473	2.674861	2.674953	2.675045	2.675136	2.675228	92
474	.675778	.675870	.675961	.676053	.676145	92
475	.676694	.676785	.676876	.676968	.677059	91
476	.677607	.677698	.677789	.677881	.677972	91
477	.678518	.678609	.678700	.678791	.678882	91
478	.679428	.679519	.679610	.679700	.679791	91
479	.680335	.680426	.680517	.680607	.680698	91

from 1 to 10000.

Num	5	6	7	8	9	Diff.
442	2.645913	2.646011	2.646109	2.646208	2.646306	98
443	.646894	.646991	.647089	.647187	.647285	98
444	.647872	.647965	.648067	.648165	.648262	98
445	.648848	.648945	.649043	.649140	.649237	97
446	.649821	.649919	.650016	.650113	.650210	97
447	.650793	.650890	.650987	.651084	.651181	97
448	2.651762	2.651859	2.651956	2.652053	2.652150	97
449	.652730	.652826	.652923	.653019	.653116	97
450	.653695	.653791	.653888	.653984	.654080	96
451	.654658	.654754	.654850	.654946	.655042	96
452	.655615	.655714	.655810	.655906	.656002	96
453	.656577	.656673	.656769	.656864	.656960	96
454	2.657534	2.657629	2.657725	2.657820	2.657916	96
455	.658488	.658584	.658679	.658774	.658870	95
456	.659441	.659536	.659631	.659726	.659821	95
457	.660391	.660486	.660581	.660676	.660771	95
458	.661339	.661434	.661529	.661623	.661718	95
459	.662285	.662380	.662474	.662569	.662663	95
460	2.663230	2.663324	2.663418	2.663512	2.663607	94
461	.664172	.664266	.664360	.664454	.664548	94
462	.665112	.665206	.665299	.665393	.665487	94
463	.666050	.666143	.666237	.666331	.666424	94
464	.666986	.667079	.667173	.667266	.667359	94
465	.667920	.668013	.668106	.668199	.668293	93
466	2.668852	2.668945	2.669038	2.669131	2.669224	93
467	.669782	.669874	.669967	.670060	.670153	93
468	.670710	.670802	.670895	.670988	.671080	93
469	.671636	.671728	.671821	.671913	.672005	93
470	.672560	.672652	.672744	.672836	.672929	92
471	.673482	.673574	.673666	.673758	.673850	92
472	.674402	.674494	.674586	.674677	.674769	92
473	2.675320	2.675412	2.675503	2.675595	2.675687	92
474	.676236	.676328	.676419	.676511	.676602	92
475	.677150	.677242	.677333	.677424	.677516	91
476	.678063	.678154	.678245	.678336	.678427	91
477	.678973	.679064	.679155	.679246	.679337	91
478	.679882	.679973	.680063	.680154	.680245	91
479	.680789	.680879	.680970	.681060	.681151	91

A Table of Logarithms,

Num	0	I	2	3	4	Diff.
480	2.681241	2.681332	2.681422	2.681513	2.681603	90
481	.682145	.682235	.682326	.682416	.682506	90
482	.683047	.683137	.683227	.683317	.683407	90
483	.683947	.684037	.684127	.684217	.684307	90
484	.684845	.684935	.685025	.685114	.685204	90
485	.685742	.685831	.685921	.686010	.686100	89
486	2.686636	2.686726	2.686815	2.686904	2.686994	89
487	.687529	.687618	.687707	.687796	.687885	89
488	.688420	.688509	.688598	.688687	.688776	89
489	.689309	.689398	.689486	.689575	.689664	89
490	.690196	.690285	.690373	.690462	.690550	89
491	.691081	.691170	.691258	.691347	.691435	88
492	2.691965	2.692053	2.692142	2.692230	2.692318	88
493	.692847	.692935	.693023	.693111	.693199	88
494	.693727	.693815	.693903	.693991	.694078	88
495	.694605	.694693	.694781	.694868	.694956	88
496	.695482	.695569	.695657	.695744	.695832	87
497	.696356	.696444	.696531	.696618	.696706	87
498	2.697229	2.697316	2.697404	2.697491	2.697578	87
499	.698100	.698188	.698275	.698362	.698448	87
500	.698970	.699057	.699144	.699230	.699317	87
501	.699838	.699924	.700011	.700098	.700184	87
502	.700704	.700790	.700877	.700963	.701050	86
503	.701568	.701654	.701741	.701827	.701913	86
504	2.702430	2.702517	2.702603	2.702689	2.702775	86
505	.703291	.703377	.703463	.703549	.703635	86
506	.704150	.704236	.704322	.704408	.704494	86
507	.705008	.705094	.705179	.705265	.705350	86
508	.705864	.705949	.706035	.706120	.706205	85
509	.706718	.706803	.706888	.706974	.707059	85
510	.707570	.707655	.707740	.707826	.707911	85
511	2.708421	2.708506	2.708591	2.708676	2.708761	85
512	.709270	.709355	.709440	.709524	.709609	85
513	.710117	.710202	.710287	.710371	.710456	85
514	.710963	.711048	.711132	.711216	.711301	84
515	.711807	.711891	.711976	.712060	.712144	84
516	.712650	.712734	.712818	.712902	.712986	84
517	.713490	.713574	.713658	.713742	.713836	84

from 1 to 10000.

13

Num	5	6	7	8	9	Unit
480	2.681693	2.681784	2.681874	2.681964	2.682055	90
481	.682596	.682686	.682777	.682867	.682957	90
482	.683497	.683587	.683677	.683767	.683857	90
483	.684396	.684486	.684576	.684666	.684756	90
484	.685294	.685383	.685473	.685563	.685652	90
485	.686189	.686279	.686368	.686457	.686547	89
486	2.687083	2.687172	2.687261	2.687351	2.687440	89
487	.687975	.688064	.688153	.688242	.688331	89
488	.688865	.688953	.689042	.689131	.689220	89
489	.689753	.689841	.689930	.690019	.690107	89
490	.690639	.690727	.690816	.690905	.690993	89
491	.691523	.691612	.691700	.691788	.691877	88
492	2.692406	2.692494	2.692583	2.692671	2.692759	88
493	.693287	.693375	.693463	.693551	.693639	88
494	.694166	.694254	.694342	.694430	.694517	88
495	.695044	.695131	.695219	.695306	.695394	88
496	.695919	.696007	.696094	.696182	.696269	87
497	.696793	.696880	.696968	.697055	.697142	87
498	2.697665	2.697752	2.697839	2.697926	2.698013	87
499	.698535	.698622	.698709	.698796	.698883	87
500	.699404	.699491	.699578	.699664	.699751	87
501	.700271	.700357	.700444	.700531	.700617	87
502	.701136	.701222	.701309	.701395	.701482	86
503	.701999	.702086	.702172	.702258	.702344	86
504	2.702861	2.702947	2.703033	2.703119	2.703205	86
505	.703721	.703807	.703893	.703979	.704065	86
506	.704579	.704665	.704751	.704837	.704922	86
507	.705436	.705522	.705607	.705693	.705778	86
508	.706291	.706376	.706462	.706547	.706632	85
509	.707144	.707229	.707315	.707400	.707485	85
510	.707996	.708081	.708166	.708251	.708336	85
511	2.708846	2.708931	2.709015	2.709100	2.709185	85
512	.709694	.709779	.709863	.709948	.710033	85
513	.710540	.710625	.710710	.710794	.710879	85
514	.711385	.711470	.711554	.711638	.711723	84
515	.712229	.712313	.712397	.712481	.712565	84
516	.713070	.713154	.713238	.713322	.713406	84
517	.713910	.713994	.714078	.714162	.714246	84

A Table of Logarithms,

Num	0	1	2	3	4	Diff.
518	2.714330	2.714414	2.714497	2.714581	2.714665	84
519	.715167	.715251	.715335	.715418	.715502	84
520	.716003	.716087	.716170	.716254	.716337	83
521	.716838	.716921	.717004	.717088	.717171	83
522	.717670	.717754	.717837	.717920	.718003	83
523	.718502	.718585	.718668	.718751	.718834	83
524	2.719331	2.719414	2.719497	2.719580	2.719663	83
525	.720159	.720242	.720325	.720407	.720490	83
526	.720986	.721068	.721151	.721233	.721316	82
527	.721811	.721893	.721975	.722058	.722140	82
528	.722634	.722716	.722798	.722881	.722963	82
529	.723456	.723538	.723620	.723702	.723784	82
530	2.724276	2.724358	2.724440	2.724522	2.724603	82
531	.725094	.725176	.725258	.725340	.725421	81
532	.725912	.725993	.726075	.726156	.726238	81
533	.726727	.726809	.726890	.726972	.727053	81
534	.727541	.727623	.727704	.727785	.727866	81
535	.728354	.728435	.728516	.728597	.728678	81
536	2.729165	2.729246	2.729327	2.729408	2.729489	81
537	.729974	.730055	.730136	.730217	.730298	81
538	.730782	.730863	.730944	.731024	.731105	81
539	.731589	.731669	.731750	.731830	.731911	81
540	.732394	.732474	.732555	.732635	.732715	80
541	.733197	.733277	.733358	.733438	.733518	80
542	2.733999	2.734079	2.734159	2.734240	2.734320	80
543	.734800	.734880	.734960	.735040	.735120	80
544	.735599	.735679	.735758	.735838	.735918	80
545	.736396	.736476	.736556	.736635	.736715	80
546	.737193	.737272	.737352	.737431	.737511	79
547	.737987	.738067	.738146	.738225	.738305	79
548	.738781	.738860	.738939	.739018	.739097	79
549	2.739572	2.739651	2.739730	2.739810	2.739889	79
550	.740363	.740442	.740521	.740599	.740678	79
551	.741152	.741230	.741309	.741388	.741467	79
552	.741939	.742018	.742096	.742175	.742254	79
553	.742725	.742804	.742882	.742961	.743039	78
554	.743510	.743588	.743666	.743745	.743823	78
555	.744293	.744371	.744449	.744528	.744606	78

from 1 to 10000.

14

Num	5	6	7	8	9	Diff.
518	2.714749	2.714832	2.714916	2.715000	2.715084	84
519	.715586	.715669	.715753	.715836	.715920	84
520	.716421	.716504	.716588	.716671	.716754	83
521	.717254	.717338	.717421	.717504	.717587	83
522	.718086	.718169	.718253	.718336	.718419	83
523	.718917	.719000	.719083	.719165	.719248	83
524	2.719745	2.719828	2.719911	2.719994	2.720077	83
525	.720573	.720655	.720738	.720821	.720903	83
526	.721398	.721481	.721563	.721646	.721728	82
527	.722222	.722305	.722387	.722469	.722552	82
528	.723045	.723127	.723209	.723291	.723374	82
529	.723866	.723948	.724030	.724112	.724194	82
530	2.724685	2.724767	2.724849	2.724931	2.725013	82
531	.725503	.725585	.725667	.725748	.725830	82
532	.726320	.726401	.726483	.726564	.726646	82
533	.727134	.727216	.727297	.727379	.727460	81
534	.727948	.728029	.728110	.728191	.728273	81
535	.728759	.728841	.728922	.729003	.729084	81
536	2.729570	2.729651	2.729732	2.729813	2.729893	81
537	.730378	.730459	.730540	.730621	.730702	81
538	.731186	.731266	.731347	.731428	.731508	81
539	.731991	.732072	.732152	.732233	.732313	81
540	.732796	.732876	.732956	.733037	.733117	80
541	.733598	.733679	.733759	.733839	.733919	80
542	2.734400	2.734480	2.734560	2.734640	2.734720	80
543	.735200	.735279	.735359	.735439	.735519	80
544	.735998	.736078	.736157	.736237	.736317	80
545	.736795	.736874	.736954	.737034	.737113	80
546	.737590	.737670	.737749	.737829	.737908	79
547	.738384	.738463	.738543	.738622	.738701	79
548	.739177	.739256	.739335	.739414	.739493	79
549	2.739968	2.740047	2.740126	2.740205	2.740284	79
550	.740757	.740836	.740915	.740994	.741073	79
551	.741546	.741624	.741703	.741782	.741860	79
552	.742332	.742411	.742489	.742568	.742647	79
553	.743118	.743196	.743275	.743353	.743431	78
554	.743902	.743980	.744058	.744136	.744215	78
555	.744684	.744762	.744840	.744919	.744997	78

A Table of Logarithms,

Num	0	1	2	3	4	Dift.
556	2.745075	2.745153	2.745231	2.745309	2.745387	78
557	.745855	.745933	.746011	.746089	.746167	78
558	.746634	.746712	.746790	.746868	.746945	78
559	.747412	.747489	.747567	.747645	.747722	78
560	.748188	.748266	.748343	.748421	.748498	77
561	.748963	.749040	.749118	.749195	.749272	77
562	2.749736	2.749814	2.749891	2.749968	2.750045	77
563	.750508	.750586	.750663	.750740	.750817	77
564	.751279	.751356	.751433	.751510	.751587	77
565	.752048	.752125	.752202	.752279	.752356	77
566	.752816	.752893	.752970	.753047	.753123	77
567	.753583	.753660	.753736	.753813	.753890	77
568	2.754348	2.754425	2.754501	2.754578	2.754654	76
569	.755112	.755189	.755265	.755341	.755417	76
570	.755875	.755951	.756027	.756103	.756180	76
571	.756636	.756712	.756788	.756864	.756940	76
572	.757396	.757472	.757548	.757624	.757700	76
573	.758155	.758230	.758306	.758382	.758458	76
574	2.758912	2.758988	2.759063	2.759139	2.759214	76
575	.759668	.759743	.759819	.759894	.759970	75
576	.760422	.760498	.760573	.760649	.760724	75
577	.761176	.761251	.761326	.761402	.761477	75
578	.761928	.762003	.762078	.762153	.762228	75
579	.762679	.762754	.762829	.762904	.762978	75
580	2.763428	2.763503	2.763578	2.763653	2.763727	75
581	.764176	.764251	.764326	.764400	.764475	75
582	.764923	.764998	.765072	.765147	.765221	75
583	.765669	.765743	.765818	.765892	.765966	74
584	.766413	.766487	.766562	.766636	.766710	74
585	.767156	.767230	.767304	.767379	.767453	74
586	.767898	.767972	.768046	.768120	.768194	74
587	2.768638	2.768712	2.768786	2.768860	2.768934	74
588	.769377	.769451	.769525	.769599	.769673	74
589	.770115	.770189	.770263	.770336	.770410	74
590	.770852	.770926	.770999	.771073	.771146	74
591	.771587	.771661	.771734	.771808	.771881	73
592	.772322	.772395	.772468	.772542	.772615	73
593	.773055	.773128	.773201	.773274	.773348	73

from 1 to 10000.

Num	5	6	7	8	9	Diff
556	2.745465	2.745543	2.745621	2.745699	2.745777	78
557	.746245	.746323	.746401	.746479	.746556	78
558	.747023	.747101	.747179	.747256	.747334	78
559	.747800	.747878	.747955	.748033	.748110	78
560	.748576	.748653	.748731	.748808	.748885	77
561	.749350	.749427	.749504	.749582	.749659	77
562	2.750123	2.750200	2.750277	2.750354	2.750431	77
563	.750894	.750971	.751048	.751125	.751202	77
564	.751664	.751741	.751818	.751895	.751972	77
565	.752433	.752509	.752586	.752663	.752740	77
566	.753200	.753277	.753353	.753430	.753506	77
567	.753966	.754042	.754119	.754195	.754272	77
568	2.754730	2.754807	2.754883	2.754960	2.755036	76
569	.755494	.755570	.755646	.755722	.755799	76
570	.756256	.756332	.756408	.756484	.756560	76
571	.757016	.757092	.757168	.757244	.757320	76
572	.757771	.757851	.757927	.758003	.758079	76
573	.758531	.758609	.758685	.758761	.758836	76
574	2.759290	2.759366	2.759441	2.759517	2.759592	76
575	.760045	.760121	.760196	.760272	.760347	75
576	.760799	.760875	.760950	.761025	.761101	75
577	.761552	.761627	.761702	.761778	.761853	75
578	.762303	.762378	.762453	.762529	.762604	75
579	.763053	.763128	.763203	.763278	.763353	75
580	2.763802	2.763877	2.763952	2.764027	2.764101	75
581	.764550	.764624	.764699	.764774	.764848	75
582	.765296	.765370	.765445	.765520	.765594	75
583	.766041	.766115	.766190	.766264	.766338	74
584	.766785	.766859	.766933	.767007	.767082	74
585	.767527	.767601	.767675	.767749	.767823	74
586	.768268	.768342	.768416	.768490	.768564	74
587	2.769008	2.769082	2.769156	2.769230	2.769303	74
588	.769746	.769820	.769894	.769968	.770042	74
589	.770484	.770557	.770631	.770705	.770778	74
590	.771220	.771293	.771367	.771440	.771514	74
591	.771955	.772028	.772102	.772175	.772248	73
592	.772688	.772762	.772835	.772908	.772981	73
593	.773421	.773494	.773567	.773640	.773713	73

A Table of Logarithms,

Num	0	1	2	3	4	D
594	2.773786	2.773860	2.773933	2.774006	2.774079	73
595	.773517	.774590	.774663	.774736	.774809	73
596	.775246	.775319	.775392	.775465	.775538	73
597	.775974	.776047	.776120	.776193	.776265	73
598	.776701	.776774	.776846	.776919	.776992	73
599	.777427	.777499	.777572	.777644	.777717	72
600	2.778151	2.778224	2.778296	2.778368	2.778441	72
601	.778874	.778947	.779019	.779091	.779163	72
602	.779596	.779669	.779741	.779813	.779885	72
603	.780317	.780389	.780461	.780533	.780605	72
604	.781037	.781109	.781181	.781253	.781324	72
605	.781755	.781827	.781899	.781971	.782042	72
606	2.782473	2.782544	2.782616	2.782688	2.782759	72
607	.783189	.783260	.783332	.783403	.783475	71
608	.783904	.783975	.784046	.784118	.784189	71
609	.784617	.784689	.784760	.784831	.784902	71
610	.785330	.785401	.785472	.785543	.785615	71
611	.786041	.786112	.786183	.786254	.786325	71
612	2.786751	2.786822	2.786893	2.786964	2.787035	71
613	.787460	.787531	.787602	.787673	.787744	71
614	.788168	.788239	.788310	.788381	.788451	71
615	.788875	.788946	.789016	.789087	.789157	71
616	.789581	.789651	.789722	.789792	.789863	70
617	.790285	.790356	.790426	.790496	.790567	70
618	2.790988	2.791059	2.791129	2.791199	2.791269	70
619	.791691	.791761	.791831	.791901	.791971	70
620	.792392	.792462	.792532	.792602	.792672	70
621	.793092	.793162	.793231	.793301	.793371	70
622	.793790	.793860	.793930	.794000	.794070	70
623	.794488	.794558	.794627	.794697	.794767	70
624	.795185	.795254	.795324	.795393	.795463	70
625	2.795880	2.795949	2.796019	2.796088	2.796158	69
626	.796574	.796644	.796713	.796782	.796852	69
627	.797268	.797337	.797406	.797475	.797545	69
628	.797960	.798029	.798098	.798167	.798236	69
629	.798651	.798720	.798789	.798858	.798927	69
630	.799341	.799409	.799478	.799547	.799616	69
631	.800029	.800098	.800167	.800236	.800305	69

from 1 to 10000.

Num	5	6	7	8	9	Diff.
594	2.774152	2.774225	2.774298	2.774371	2.774444	73
595	.774882	.774955	.775028	.775100	.775173	73
596	.775610	.775683	.775756	.775829	.775902	73
597	.776338	.776411	.776483	.776556	.776629	73
598	.777064	.777137	.777209	.777282	.777354	73
599	.777789	.777862	.777934	.778006	.778079	72
600	2.778513	2.778585	2.778658	2.78730	2.778802	72
601	.779236	.779308	.779380	.779452	.779524	72
602	.779957	.780029	.780101	.780173	.780245	72
603	.780677	.780749	.780821	.780893	.780965	72
604	.781396	.781468	.781540	.781612	.781684	72
605	.782114	.782186	.782258	.782329	.782401	72
606	2.782831	2.782902	2.782974	2.783046	2.783117	72
607	.783546	.783618	.783689	.783761	.783832	71
608	.784261	.784332	.784403	.784475	.784546	71
609	.784974	.785045	.785116	.785187	.785259	71
610	.785686	.785757	.785828	.785899	.785970	71
611	.786396	.786467	.786538	.786609	.786680	71
612	2.787106	2.787177	2.787248	2.787319	2.787390	71
613	.787815	.787885	.787956	.788027	.788098	71
614	.788522	.788593	.788663	.788734	.788804	71
615	.789228	.789299	.789369	.789440	.789510	71
616	.789933	.790003	.790074	.790144	.790215	70
617	.790637	.790707	.790778	.790848	.790918	70
618	2.791340	2.791410	2.791480	2.791550	2.791620	70
619	.792041	.792111	.792181	.792252	.792322	70
620	.792742	.792812	.792882	.792952	.793022	70
621	.793441	.793511	.793581	.793651	.793721	70
622	.794139	.794209	.794279	.794349	.794418	70
623	.794836	.794906	.794976	.795045	.795115	70
624	.795532	.795602	.795671	.795741	.795810	70
625	2.796227	2.796297	2.796366	2.796436	2.796505	69
626	.796921	.796990	.797060	.797129	.797198	69
627	.797614	.797683	.797752	.797821	.797890	69
628	.798305	.798374	.798443	.798512	.798582	69
629	.798996	.799065	.799134	.799203	.799272	69
630	.799685	.799754	.799823	.799892	.799960	69
631	.800373	.800442	.800511	.800580	.800648	69

A Table of Logarithms,

Num.	0	1	2	3	4	Dif.
632	2.800717	2.800786	2.800854	2.800923	2.800992	69
633	.801404	.801472	.801541	.801609	.801678	69
634	.802089	.802158	.802226	.802295	.802368	68
635	.802774	.802842	.802910	.802979	.803047	68
636	.803457	.803525	.803594	.803662	.803730	68
637	.804139	.804208	.804276	.804344	.804412	68
638	2.804821	2.804899	2.804957	2.805025	2.805093	68
639	.805501	.805569	.805637	.805705	.805773	68
640	.806180	.806248	.806316	.806384	.806451	68
641	.806858	.806926	.806994	.807061	.807129	68
642	.807535	.807603	.807670	.807738	.807806	68
643	.808211	.808279	.808346	.808414	.808481	67
644	2.808886	2.808953	2.809021	2.809088	2.809155	67
645	.809560	.809627	.809694	.809762	.809829	67
646	.810232	.810300	.810367	.810434	.810501	67
647	.810904	.810971	.811038	.811106	.811173	67
648	.811575	.811642	.811709	.811776	.811843	67
649	.812245	.812312	.812378	.812445	.812512	67
650	2.812913	2.812980	2.813047	2.813114	2.813180	67
651	.813581	.813648	.813714	.813781	.813848	67
652	.814248	.814314	.814381	.814447	.814514	67
653	.814913	.814980	.815046	.815113	.815179	66
654	.815578	.815644	.815710	.815777	.815843	66
655	.816241	.816308	.816374	.816440	.816506	66
656	2.816904	2.816970	2.817036	2.817102	2.817169	66
657	.817565	.817631	.817698	.817764	.817830	66
658	.818226	.818292	.818358	.818424	.818490	66
659	.818885	.818951	.819017	.819083	.819149	66
660	.819544	.819610	.819675	.819741	.819807	66
661	.820201	.820267	.820333	.820398	.820464	66
662	.820858	.820924	.820989	.821055	.821120	66
663	2.821513	2.821579	2.821644	2.821710	2.821775	65
664	.822168	.822233	.822299	.822364	.822430	65
665	.822822	.822887	.822952	.823017	.823083	65
666	.823474	.823539	.823605	.823670	.823735	65
667	.824126	.824191	.824256	.824321	.824386	65
668	.824776	.824841	.824906	.824971	.825036	65
669	.825426	.825491	.825556	.825621	.825686	65

from 1 to 10000,

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Num.	5	6	7	8	9	Diff.
632	.801060	.801129	.801198	.801267	.801335	69
633	.801747	.801815	.801884	.801952	.802021	69
634	.802432	.802500	.802568	.802637	.802705	68
635	.803116	.803184	.803252	.803321	.803389	68
636	.803798	.803867	.803935	.804003	.804071	68
637	.804480	.804548	.804616	.804685	.804753	68
638	.805161	.805229	.805297	.805365	.805433	68
639	.805840	.805908	.805976	.806044	.806112	68
640	.806519	.806587	.806655	.806723	.806790	68
641	.807197	.807264	.807332	.807400	.807467	68
642	.807873	.807941	.808008	.808076	.808143	68
643	.808548	.808616	.808683	.808751	.808818	67
644	.809223	.809290	.809358	.809425	.809492	67
645	.809896	.809963	.810031	.810098	.810165	67
646	.810568	.810636	.810703	.810770	.810837	67
647	.811240	.811307	.811374	.811441	.811508	67
648	.811910	.811977	.812044	.812111	.812178	67
649	.812579	.812646	.812713	.812780	.812846	67
650	.813247	.813314	.813381	.813447	.813514	67
651	.813914	.813981	.814048	.814114	.814181	67
652	.814580	.814647	.814714	.814780	.814847	67
653	.815246	.815312	.815378	.815445	.815511	66
654	.815910	.815976	.816042	.816109	.816175	66
655	.816573	.816639	.816705	.816771	.816838	66
656	.817235	.817301	.817367	.817433	.817495	66
657	.817896	.817962	.818028	.818094	.818160	66
658	.818556	.818622	.818688	.818754	.818819	66
659	.819215	.819281	.819346	.819412	.819478	66
660	.819873	.819939	.820004	.820070	.820136	66
661	.820530	.820595	.820661	.820727	.820792	66
662	.821186	.821251	.821317	.821382	.821448	66
663	.821841	.821906	.821972	.822037	.822103	65
664	.822495	.822560	.822626	.822691	.822756	65
665	.823148	.823213	.823279	.823344	.823409	65
666	.823800	.823865	.823930	.823996	.824061	65
667	.824451	.824516	.824581	.824646	.824711	65
668	.825101	.825166	.825231	.825296	.825361	65
669	.825751	.825815	.825880	.825945	.826010	65

A Table of Logarithms,

Num	0	1	2	3	4	Diff.
670	2.826075	2.826140	2.826204	2.826269	2.826334	65
671	.826722	.826787	.826852	.826917	.826981	65
672	.827369	.827434	.827498	.827563	.827628	65
673	.828015	.828080	.828144	.828209	.828273	64
674	.828660	.828724	.828789	.828853	.828918	64
675	.829304	.829368	.829432	.829497	.829561	64
676	2.829947	2.830011	2.830075	2.830139	2.830204	64
677	.830589	.830653	.830717	.830781	.830845	64
678	.831230	.831294	.831358	.831422	.831486	64
679	.831870	.831934	.831998	.832062	.832125	64
680	.832509	.832573	.832637	.832700	.832764	64
681	.833147	.833211	.833275	.833338	.833402	64
682	2.833784	2.833848	2.833912	2.833975	2.834039	64
683	.834421	.834484	.834548	.834611	.834675	64
684	.835056	.835120	.835183	.835246	.835310	63
685	.835691	.835754	.835817	.835881	.835944	63
686	.836324	.836387	.836451	.836514	.836577	63
687	.836957	.837020	.837083	.837146	.837209	63
688	2.837588	2.837652	2.837715	2.837778	2.837841	63
689	.838219	.838282	.838345	.838408	.838471	63
690	.838849	.838912	.838975	.839038	.839101	63
691	.839478	.839541	.839604	.839667	.839729	63
692	.840106	.840169	.840232	.840294	.840357	63
693	.840733	.840796	.840859	.840921	.840984	63
694	2.841359	2.841422	2.841485	2.841547	2.841610	63
695	.841983	.842047	.842110	.842173	.842238	62
696	.842609	.842672	.842734	.842796	.842859	62
697	.843233	.843295	.843357	.843420	.843482	62
698	.843855	.843918	.843980	.844042	.844104	62
699	.844477	.844539	.844601	.844663	.844726	62
700	.845098	.845160	.845222	.845284	.845346	62
701	2.845718	2.845780	2.845842	2.845904	2.845966	62
702	.846337	.846399	.846461	.846523	.846584	62
703	.846955	.847017	.847079	.847141	.847202	62
704	.847573	.847634	.847696	.847758	.847819	62
705	.848189	.848251	.848312	.848374	.848435	62
706	.848805	.848866	.848928	.848989	.849051	61
707	.849419	.849481	.849542	.849604	.849665	61

from 1 to 10000.

Num	5	6	7	8	9	Diff
670	2.826399	2.826464	2.826528	2.826593	2.826658	65
671	.827046	.827111	.827175	.827240	.827305	65
672	.827692	.827757	.827821	.827886	.827950	65
673	.828338	.828402	.828466	.828531	.828595	64
674	.828982	.829046	.829111	.829175	.829239	64
675	.829625	.829690	.829754	.829818	.829882	64
676	2.830268	2.830332	2.830396	2.830460	2.830524	64
677	.830909	.830973	.831037	.831102	.831166	64
678	.831550	.831614	.831678	.831742	.831806	64
679	.832189	.832253	.832317	.832381	.832445	64
680	.832828	.832892	.832956	.833019	.833083	64
681	.833466	.833530	.833593	.833657	.833721	64
682	2.834103	2.834166	2.834230	2.834293	2.834357	64
683	.834738	.834802	.834866	.834929	.834993	64
684	.835373	.835437	.835500	.835564	.835627	63
685	.836007	.836071	.836134	.836197	.836261	63
686	.836640	.836704	.836767	.836830	.836893	63
687	.837273	.837336	.837399	.837462	.837525	63
688	2.837904	2.837967	2.838030	2.838093	2.838156	63
689	.838534	.838597	.838660	.838723	.838786	63
690	.839164	.839227	.839289	.839352	.839415	63
691	.839792	.839855	.839918	.839981	.840043	63
692	.840420	.840483	.840545	.840608	.840671	63
693	.841046	.841109	.841172	.841234	.841297	63
694	2.841672	2.841735	2.841797	2.841860	2.841922	63
695	.842297	.842360	.842422	.842484	.842547	62
696	.842921	.842983	.843046	.843108	.843170	62
697	.843544	.843606	.843669	.843731	.843793	62
698	.844166	.844229	.844291	.844353	.844415	62
699	.844788	.844850	.844912	.844974	.845036	62
700	.845408	.845470	.845532	.845594	.845656	62
701	2.846028	2.846090	2.846151	2.846213	2.846275	62
702	.846646	.846708	.846770	.846832	.846893	62
703	.847264	.847326	.847388	.847449	.847511	62
704	.847881	.847943	.848004	.848066	.848127	62
705	.848497	.848559	.848620	.848682	.848743	62
706	.849112	.849174	.849235	.849296	.849358	61
707	.849726	.849788	.849849	.849911	.849972	61

A Table of Logarithms,

Num.	0	1	2	3	4	Diff.
708	2.850033	2.850095	2.850156	2.850217	2.850279	61
709	.850646	.850707	.850769	.850830	.850891	61
710	.851258	.851319	.851381	.851442	.851503	61
711	.851870	.851931	.851992	.852053	.852114	61
712	.852480	.852541	.852602	.852663	.852724	61
713	.853089	.853150	.853211	.853272	.853333	61
714	2.853698	2.853759	2.853820	2.853881	2.853941	61
715	.854306	.854367	.854427	.854488	.854549	61
716	.854913	.854974	.855034	.855095	.855156	61
717	.855519	.855580	.855640	.855701	.855761	61
718	.856124	.856185	.856245	.856306	.856366	60
719	.856729	.856789	.856850	.856910	.856970	60
720	2.857332	2.857393	2.857453	2.857513	2.857574	60
721	.857935	.857995	.858056	.858116	.858176	60
722	.858537	.858597	.858657	.858718	.858778	60
723	.859138	.859198	.859258	.859318	.859378	60
724	.859739	.859798	.859858	.859918	.859978	60
725	.860338	.860398	.860458	.860518	.860578	60
726	2.860937	2.860994	2.861056	2.861116	2.861176	60
727	.861534	.861594	.861654	.861714	.861773	60
728	.862131	.862191	.862251	.862310	.862370	60
729	.862727	.862787	.862847	.862906	.862966	60
730	.863323	.863382	.863442	.863501	.863561	59
731	.863917	.863977	.864036	.864096	.864155	59
732	2.864511	2.864570	2.864630	2.864689	2.864748	59
733	.865104	.865163	.865222	.865282	.865341	59
734	.865696	.865755	.865814	.865873	.865933	59
735	.866287	.866346	.866405	.866465	.866524	59
736	.866878	.866937	.866996	.867055	.867114	59
737	.867467	.867526	.867585	.867644	.867703	59
738	.868056	.868115	.868174	.868233	.868292	59
739	2.868644	2.868703	2.868762	2.868821	2.868879	59
740	.869232	.869290	.869349	.869408	.869466	59
741	.869818	.869877	.869935	.869994	.870053	59
742	.870404	.870462	.870521	.870579	.870638	58
743	.870989	.871047	.871106	.871164	.871223	58
744	.871573	.871631	.871690	.871748	.871806	58
745	.872156	.872215	.872273	.872331	.872389	58

from 1 to 10000.

Num	5	6	7	8	9	Diff
708	2.850340	2.850401	2.850462	2.850524	2.850585	61
709	.850952	.851014	.851075	.851136	.851197	61
710	.851564	.851625	.851686	.851747	.851808	61
711	.852175	.852236	.852297	.852358	.852419	61
712	.852785	.852846	.852907	.852968	.853029	61
713	.853394	.853455	.853516	.853576	.853637	61
714	2.854002	2.854063	2.854124	2.854184	2.854245	61
715	.854610	.854670	.854731	.854792	.854852	61
716	.855216	.855277	.855337	.855398	.855459	61
717	.855822	.855882	.855943	.856003	.856064	61
718	.856427	.856487	.856548	.856608	.856668	60
719	.857031	.857091	.857151	.857212	.857272	60
720	2.857634	2.857694	2.857754	2.857814	2.857875	60
721	.858236	.858296	.858357	.858417	.858477	60
722	.858838	.858898	.858958	.859018	.859078	60
723	.859438	.859499	.859559	.859619	.859679	60
724	.860038	.860098	.860158	.860218	.860278	60
725	.860637	.860697	.860757	.860817	.860877	60
726	2.861236	2.861295	2.861355	2.861415	2.861475	60
727	.861833	.861893	.861952	.862012	.862072	60
728	.862430	.862489	.862549	.862608	.862668	60
729	.863025	.863085	.863144	.863204	.863263	60
730	.863620	.863680	.863739	.863798	.863858	59
731	.864214	.864274	.864333	.864392	.864452	59
732	2.864808	2.864867	2.864926	2.864985	2.865045	59
733	.865400	.865459	.865518	.865578	.865637	59
734	.865992	.866051	.866110	.866169	.866228	59
735	.866583	.866642	.866701	.866760	.866819	59
736	.867173	.867232	.867291	.867350	.867409	59
737	.867762	.867821	.867880	.867939	.867997	59
738	.868350	.868409	.868468	.868527	.868586	59
739	2.868938	.868997	2.869056	2.869114	2.869173	59
740	.869525	.869584	.869642	.869701	.869760	59
741	.870111	.870170	.870228	.870287	.870345	59
742	.870696	.870755	.870813	.870872	.870930	58
743	.871281	.871339	.871398	.871456	.871515	58
744	.871865	.871923	.871981	.872040	.872098	58
745	.872448	.872506	.872564	.872622	.872681	58

A Table of Logarithms,

Nu.	0	1	2	3	4	Diff.
746	2.872739	2.872797	2.872855	2.872913	2.872972	58
747	.873321	873379	.873437	.873495	.873553	58
748	.873902	.873960	.874018	.874070	.874134	58
749	.874482	.874540	.874598	.874656	.874714	58
750	.875061	.875119	.875177	.875235	.875293	58
751	.875640	.875698	.875756	.875813	.875871	58
752	2.876218	2.876276	2.876334	2.876391	2.876449	58
753	.876795	.876853	.876910	.876968	.877026	58
754	.877371	.877429	.877486	.877544	.877602	58
755	.87794	.878004	.878062	.878119	.878177	57
756	.87852	878579	.878637	.878694	.878751	57
757	879.9	879.55	879.211	879.268	.879325	57
758	2.879569	2.879622	2.879784	2.879841	2.879898	57
759	.880242	.880299	.880356	.880413	.880471	57
760	.880814	.880871	.880928	.880985	.881042	57
761	.881385	.881442	.881499	.881556	.881613	57
762	.881955	.882012	.882069	.882126	.882183	57
763	.882524	.882581	.882638	.88269	.882752	57
764	2.883093	2.883150	2.883207	2.883264	2.883321	57
765	.883661	.883718	.883775	.883832	.883889	57
766	.884229	.884285	.884342	.884399	.884455	57
767	.884795	.884852	.884909	.884965	.885022	57
768	.885361	.885418	.885474	.885531	.885587	57
769	.885926	.885983	.886039	.886096	.886152	56
770	2.88649	2.886547	2.886603	2.886660	2.886716	56
771	.887054	.887111	.887167	.887223	.887280	56
772	.887617	.887673	.887730	.887786	.887842	56
773	.888179	.888236	.888292	.888348	.888404	56
774	.888741	.888797	.888853	.888909	.888965	56
775	.889302	.889358	.889414	.889470	.889526	56
776	.889862	.889918	.889974	.890030	.890086	56
777	2.890421	2.890477	2.890533	2.890589	2.890644	56
778	.890980	.891035	.891091	.891147	.891203	56
779	.891537	.891593	.891649	.891705	.891760	56
780	.892095	.892150	.892206	.892262	.892317	56
781	.892651	.892707	.892762	.892818	.892873	56
782	.893207	.893262	.893318	.893373	.893429	56
783	.893762	.893817	.893873	.893928	.893984	55

from 1 to 10000.

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Num	5	6	7	8	9	Diff.
746	2.873030	2.873088	2.873146	2.873204	2.873262	58
747	.873611	.873669	.873727	.873785	.873843	58
748	.874192	.874250	.874308	.874366	.874424	58
749	.874772	.874830	.874887	.874945	.875003	58
750	.875351	.875409	.875466	.875524	.875582	58
751	.875929	.875987	.876044	.876102	.876160	58
752	2.876506	2.876564	2.876622	2.876680	2.876737	58
753	.877083	.877141	.877198	.877256	.877314	58
754	.877659	.877717	.877774	.877832	.877889	58
755	.878234	.878292	.878349	.878407	.878464	57
756	.878809	.878866	.878922	.878981	.879038	57
757	.879383	.879440	.879497	.879555	.879612	57
758	2.879956	2.880013	2.880070	2.880127	2.880185	57
759	.880528	.880585	.880642	.880699	.880756	57
760	.881099	.881156	.881213	.881270	.881328	57
761	.881670	.881727	.881784	.881841	.881898	57
762	.882240	.882297	.882354	.882411	.882468	57
763	.882809	.882866	.882923	.882980	.883036	57
764	2.883377	2.883434	2.883491	2.883548	2.883605	57
765	.883945	.884002	.884059	.884115	.884172	57
766	.884512	.884569	.884625	.884682	.884739	57
767	.885078	.885135	.885191	.885248	.885305	57
768	.885644	.885700	.885757	.885813	.885870	57
769	.886209	.886263	.886321	.886378	.886434	56
770	2.886773	2.886829	2.886885	2.886942	2.886998	56
771	.887336	.887392	.887448	.887505	.887561	56
772	.887898	.887955	.888011	.888067	.888123	56
773	.888460	.888516	.888573	.888629	.888685	56
774	.889021	.889077	.889133	.889190	.889246	56
775	.889582	.889638	.889694	.889750	.889806	56
776	.890141	.890197	.890253	.890309	.890365	56
777	2.890700	2.890755	2.890812	2.890868	2.890924	56
778	.891259	.891314	.891370	.891426	.891482	56
779	.891816	.891872	.891927	.891983	.892039	56
780	.892373	.892428	.892484	.892540	.892595	56
781	.892929	.892985	.893040	.893096	.893151	56
782	.893484	.893540	.893595	.893651	.893706	56
783	.894039	.894094	.894150	.894205	.894261	55

A Table of Logarithms,

Num	0	1	2	3	4	Dif.
784	.894316	2.894371	2.894427	2.894482	2.894538	55
785	.894870	2.894925	.894980	.895036	.895091	55
786	.895422	.895478	.895533	.895588	.895643	55
787	.895975	.896030	.896085	.896140	.896195	55
788	.896526	.896581	.896636	.896691	.896747	55
789	.897077	.897132	.897187	.897242	.897297	55
790	2.897627	2.897682	2.897737	2.897792	2.897847	55
791	.898176	.898231	.898286	.898341	.898396	55
792	.898725	.898780	.898835	.898890	.898944	55
793	.899273	.899328	.899383	.899437	.899492	55
794	.899820	.899875	.899930	.899985	.900039	55
795	.900367	.900422	.900476	.900531	.900586	55
796	2.900913	2.900968	2.901022	2.901077	2.901131	55
797	.901458	.901513	.901567	.901622	.901676	54
798	.902003	.902057	.902112	.902166	.902220	54
799	.902547	.902601	.902655	.902710	.902764	54
800	.903090	.903144	.903198	.903253	.903307	54
801	.903632	.903687	.903741	.903795	.903849	54
802	2.904174	2.904228	2.904283	2.904337	2.904391	54
803	.904715	.904770	.904824	.904878	.904932	54
804	.905256	.905310	.905364	.905418	.905472	54
805	.905796	.905850	.905904	.905958	.906012	54
806	.906335	.906389	.906443	.906497	.906550	54
807	.906873	.906927	.906981	.907035	.907089	54
808	2.907411	2.907465	2.907519	2.907573	2.907626	54
809	.907948	.908002	.908056	.908109	.908163	54
810	.908485	.908539	.908592	.908646	.908699	54
811	.909021	.909074	.909128	.909181	.909235	53
812	.909556	.909609	.909663	.909716	.909770	53
813	.910090	.910144	.910197	.910251	.910304	53
814	.910624	.910678	.910731	.910784	.910838	53
815	2.911158	2.911211	2.911264	2.911317	2.911371	53
816	.911690	.911743	.911797	.911850	.911903	53
817	.912222	.912275	.912328	.912381	.912435	53
818	.912753	.912806	.912859	.912912	.912966	53
819	.913284	.913337	.913390	.913443	.913496	53
820	.913814	.913867	.913920	.913973	.914026	53
821	.914343	.914396	.914449	.914502	.914555	53

from 1 to 10000.

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Num	5	6	7	8	9	Diff.
784	2.894593	2.894648	2.894704	2.894759	2.894814	55
785	.895146	.895201	.895257	.895312	.895367	55
786	.895699	.895754	.895809	.895864	.895919	55
787	.896251	.896306	.896361	.896416	.896471	55
788	.896802	.896857	.896912	.896967	.897022	55
789	.897352	.897407	.897462	.897517	.897572	55
790	2.897902	2.897957	2.898012	2.898067	2.898122	55
791	.898451	.898506	.898561	.898615	.898670	55
792	.898999	.899054	.899109	.899164	.899218	55
793	.899547	.899602	.899656	.899711	.899766	55
794	.900094	.900149	.900203	.900258	.900312	55
795	.900640	.900695	.900749	.900804	.900858	55
796	2.901186	2.901240	2.901295	2.901349	2.901404	55
797	.901731	.901785	.901840	.901894	.901948	54
798	.902275	.902329	.902384	.902438	.902492	54
799	.902818	.902873	.902927	.902981	.903036	54
800	.903361	.903416	.903470	.903524	.903578	54
801	.903903	.903958	.904012	.904066	.904120	54
802	2.904445	2.904499	2.904553	2.904607	2.904661	54
803	.904986	.905040	.905094	.905148	.905202	54
804	.905526	.905580	.905634	.905688	.905742	54
805	.906065	.906119	.906173	.906227	.906281	54
806	.906604	.906658	.906712	.906766	.906820	54
807	.907142	.907196	.907250	.907304	.907358	54
808	2.907680	2.907734	2.907787	2.907841	2.907895	54
809	.908217	.908270	.908324	.908378	.908431	54
810	.908753	.908807	.908860	.908914	.908967	54
811	.909288	.909342	.909395	.909449	.909502	54
812	.909823	.909877	.909930	.909984	.910037	53
813	.910358	.910411	.910464	.910518	.910571	53
814	.910891	.910944	.910998	.911051	.911104	53
815	2.911424	2.911477	2.911530	2.911584	2.911637	53
816	.911956	.912009	.912063	.912116	.912169	53
817	.912488	.912541	.912594	.912647	.912700	53
818	.913019	.913072	.913125	.913178	.913231	53
819	.913549	.913602	.913655	.913708	.913761	53
820	.914079	.914131	.914184	.914237	.914290	53
821	.914608	.914660	.914713	.914766	.914819	53

A Table of Logarithms,

Num	0	1	2	3	4	Diff.
822	2.914872	2.914925	2.914977	2.915030	2.915083	53
823	.915400	.915453	.915505	.915558	.915611	53
824	.915927	.915980	.916033	.916085	.916138	53
825	.916454	.916507	.916559	.916612	.916664	53
826	.916980	.917033	.917085	.917138	.917190	53
827	.917505	.917558	.917610	.917663	.917715	52
828	2.918030	2.918083	2.918135	2.918188	2.918240	52
829	.918554	.918607	.918659	.918712	.918764	52
830	.919078	.919130	.919183	.919235	.919287	52
831	.919601	.919653	.919705	.919758	.919810	52
832	.920123	.920175	.920228	.920280	.920332	52
833	.920645	.920697	.920749	.920801	.920853	52
834	2.921166	2.921218	2.921270	2.921322	2.921374	52
835	.921686	.921738	.921790	.921842	.921894	52
836	.922206	.922258	.922310	.922362	.922414	52
837	.922725	.922777	.922829	.922881	.922933	52
838	.923244	.923296	.923348	.923399	.923451	52
839	.923762	.923814	.923865	.923917	.923969	52
840	2.924279	2.924331	2.924383	2.924434	2.924486	52
841	.924796	.924848	.924899	.924951	.925002	52
842	.925312	.925364	.925415	.925467	.925518	52
843	.925828	.925879	.92593	.925982	.926034	51
844	.926342	.926394	.926445	.926497	.926548	51
845	.926857	.926908	.926959	.927011	.927062	51
846	2.927370	2.927422	2.927473	2.927524	2.927576	51
847	.927883	.927935	.927986	.928037	.928088	51
848	.928396	.928447	.928498	.928549	.928601	51
849	.928908	.928959	.929010	.929061	.929112	51
850	.929419	.929470	.929521	.929572	.929623	51
851	.929930	.929981	.930032	.930083	.930134	51
852	.930440	.930491	.930541	.930592	.930643	51
853	2.930949	2.931000	2.931051	2.931102	2.931153	51
854	.931458	.931509	.931560	.931610	.931661	51
855	.931966	.932017	.932068	.932118	.932169	51
856	.932474	.932524	.932575	.932626	.932677	51
857	.932981	.933031	.933082	.933133	.933183	51
858	.933487	.933538	.933588	.933639	.933690	51
859	.933993	.934044	.934094	.934145	.934195	51

from 1 to 10000.

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Num	5	6	7	8	9	Diff.
822	2.915136	2.915189	2.915241	2.915294	2.915347	53
823	.915664	.915716	.915769	.915822	.915874	53
824	.916191	.916243	.916296	.916349	.916401	53
825	.916717	.916770	.916822	.916875	.916927	53
826	.917243	.917295	.917348	.917400	.917453	53
827	.917768	.917820	.917873	.917925	.917978	52
828	2.918292	2.918345	2.918397	2.918450	2.918502	52
829	.918816	.918869	.918921	.918973	.919026	52
830	.919340	.919392	.919444	.919496	.919549	52
831	.919862	.919914	.919967	.920019	.920071	52
832	.920384	.920436	.920489	.920541	.920593	52
833	.920906	.920958	.921010	.921062	.921114	52
834	2.921426	2.921478	2.921530	2.921582	2.921634	52
835	.921946	.921998	.922050	.922102	.922154	52
836	.922466	.922518	.922570	.922622	.922674	52
837	.922985	.923037	.923088	.923140	.923192	52
838	.923503	.923555	.923607	.923658	.923710	52
839	.924021	.924072	.924124	.924176	.924228	52
840	2.924538	2.924589	2.924641	2.924693	2.924744	52
841	.925054	.925106	.925157	.925209	.925260	52
842	.925570	.925621	.925673	.925724	.925776	52
843	.926085	.926137	.926188	.926239	.926291	51
844	.926600	.926651	.926702	.926754	.926805	51
845	.927114	.927165	.927216	.927268	.927319	51
846	2.927627	2.927678	2.927730	2.927781	2.927832	51
847	.928140	.928191	.928242	.928293	.928345	51
848	.928652	.928703	.928754	.928805	.928856	51
849	.929163	.929214	.929266	.929317	.929368	51
850	.929674	.929725	.929776	.929827	.929878	51
851	.930185	.930236	.930287	.930338	.930389	51
852	.930694	.930745	.930796	.930847	.930898	51
853	2.931205	2.931254	2.931305	2.931356	2.931407	51
854	.931712	.931763	.931814	.931864	.931915	51
855	.932220	.932271	.932321	.932372	.932423	51
856	.932727	.932778	.932829	.932879	.932930	51
857	.933234	.933285	.933335	.933386	.933437	51
858	.933740	.933791	.933841	.933892	.933943	51
859	.934246	.934296	.934347	.934397	.934448	51

A Table of Logarithms,

Num	0	1	2	3	4	Diff.
860	2.934498	2.934549	2.934599	2.934650	2.934700	50
861	.935003	.935054	.935104	.935154	.935205	50
862	.935507	.935558	.935608	.935658	.935709	50
863	.936011	.936061	.936111	.936162	.936212	50
864	.936514	.936564	.936614	.936664	.936715	50
865	.937016	.937066	.937116	.937167	.937217	50
866	2.937518	2.937568	2.937618	2.937668	2.937718	50
867	.938019	.938069	.938119	.938169	.938219	50
868	.938520	.938570	.938620	.938706	.938720	50
869	.939020	.939070	.939120	.939170	.939220	50
870	.939519	.939569	.939619	.939669	.939719	50
871	.940018	.940068	.940118	.940168	.940218	50
872	2.940516	2.940566	2.940616	2.940666	2.940716	50
873	.941014	.941064	.941114	.941163	.941213	50
874	.941511	.941561	.941611	.941660	.941710	50
875	.942008	.942058	.942107	.942157	.942206	50
876	.942504	.942554	.942603	.942653	.942702	50
877	.943000	.943049	.943099	.943148	.943198	49
878	2.943494	2.943544	2.943593	2.943643	2.943692	49
879	.943989	.944038	.944088	.944137	.944186	49
880	.944483	.944532	.944581	.944631	.944690	49
881	.944976	.945025	.945074	.945124	.945173	49
882	.945469	.945518	.945567	.945616	.945665	49
883	.945961	.946010	.946059	.946108	.946157	49
884	2.946452	2.946501	2.946550	2.946600	2.946649	49
885	.946943	.946992	.947041	.947090	.947139	49
886	.947434	.947483	.947532	.947581	.947630	49
887	.947924	.947973	.948021	.948070	.948119	49
888	.948413	.948462	.948511	.948560	.948608	49
889	.948902	.948951	.948999	.949048	.949097	49
890	.949390	.949439	.949488	.949536	.949585	49
891	2.949878	2.949926	2.949975	2.950023	2.950073	49
892	.950365	.950413	.950462	.950511	.950560	49
893	.950851	.950900	.950949	.950997	.951046	49
894	.951337	.951386	.951435	.951483	.951532	49
895	.951823	.951872	.951920	.951969	.952017	49
896	.952308	.952356	.952405	.952453	.952502	48
897	.952792	.952841	.952889	.952938	.952986	48

from 1 to 10000.

Num.	5	6	7	8	9	Diff.
860	2.934751	2.934801	2.934851	2.934901	2.934951	50
861	.935255	.935306	.935356	.935406	.935457	50
862	.935759	.935809	.935860	.935910	.935960	50
863	.936262	.936313	.936363	.936413	.936463	50
864	.936765	.936815	.936865	.936916	.936966	50
865	.937267	.937317	.937367	.937418	.937468	50
866	2.937769	2.937819	2.937869	2.937919	2.937969	50
867	.938269	.938319	.938370	.938420	.938470	50
868	.938770	.938820	.938870	.938920	.938970	50
869	.939275	.939319	.939369	.939419	.939469	50
870	.939769	.939819	.939868	.939918	.939968	50
871	.940267	.940317	.940367	.940417	.940467	50
872	2.940765	2.940815	2.940865	2.940915	2.940964	50
873	.941263	.941313	.941362	.941412	.941462	50
874	.941760	.941809	.941859	.941909	.941958	50
875	.942256	.942306	.942355	.942405	.942454	50
876	.942752	.942801	.942851	.942900	.942950	50
877	.943247	.943297	.943346	.943396	.943445	49
878	2.943742	2.943791	2.943841	2.943890	2.943939	49
879	.944236	.944285	.944335	.944384	.944433	49
880	.944729	.944779	.944828	.944877	.944927	49
881	.945222	.945272	.945321	.945370	.945419	49
882	.945715	.945764	.945813	.945863	.945911	49
883	.946207	.946256	.946305	.946354	.946403	49
884	2.946698	2.946747	2.946796	2.946845	2.946894	49
885	.947189	.947238	.947287	.947336	.947385	49
886	.947679	.947728	.947777	.947826	.947875	49
887	.948168	.948217	.948266	.948315	.948364	49
888	.948657	.948706	.948755	.948804	.948853	49
889	.949146	.949195	.949244	.949292	.949341	49
890	.949633	.949683	.949731	.949780	.949829	49
891	2.950121	2.950170	2.950219	2.950267	2.950316	49
892	.950608	.950657	.950705	.950754	.950803	49
893	.951095	.951143	.951192	.951240	.951289	49
894	.951580	.951629	.951677	.951726	.951774	49
895	.952066	.952114	.952163	.952211	.952259	48
896	.952550	.952599	.952647	.952696	.952744	48
897	.953034	.953083	.953131	.953180	.953228	48

A Table of Logarithms,

Num.	0	1	2	3	4	Diff.
898	2.953276	2.953325	2.953373	2.953421	2.953470	48
899	.953760	.953808	.953856	.953905	.953953	48
900	.954242	.954291	.954339	.954387	.954435	48
901	.954725	.954773	.954821	.954869	.955918	48
902	.955206	.955255	.955303	.955351	.955399	48
903	.955688	.955736	.955784	.955832	.955880	48
904	2.956168	2.956216	2.956264	2.956312	2.956360	48
905	.956649	.956697	.956744	.956792	.956840	48
906	.957128	.957176	.957224	.957272	.957320	48
907	.957607	.957655	.957707	.957751	.957799	48
908	.958086	.958134	.958181	.958229	.958277	48
909	.958564	.958612	.958659	.958707	.958755	48
910	2.959041	2.959089	2.959137	2.959184	2.959232	48
911	.959518	.959566	.959614	.959661	.959709	48
912	.959995	.960042	.960090	.960138	.960185	48
913	.960471	.960518	.960566	.960613	.960661	48
914	.960946	.960994	.961041	.961089	.961136	47
915	.961421	.961468	.961516	.961563	.961611	47
916	2.961895	2.961943	2.961990	2.962038	2.962085	47
917	.962369	.962417	.962464	.962511	.962559	47
918	.962843	.962890	.962937	.962985	.963032	47
919	.963315	.963363	.963410	.963457	.963504	47
920	.963788	.963835	.963882	.963929	.963977	47
921	.964260	.964307	.964354	.964401	.964448	47
922	2.964731	2.964778	2.964825	2.964872	2.964919	47
923	.965202	.965249	.965296	.965343	.965390	47
924	.965672	.965719	.965766	.965813	.965860	47
925	.966142	.966189	.966236	.966283	.966329	47
926	.966611	.966658	.966705	.966752	.966798	47
927	.967080	.967127	.967173	.967220	.967267	47
928	.967548	.967595	.967642	.967688	.967735	47
929	2.968016	2.968062	2.968109	2.968156	2.968203	47
930	.968483	.968530	.968576	.968623	.968670	47
931	.968950	.968996	.969043	.969090	.969136	47
932	.969416	.969462	.969509	.969556	.969602	47
933	.969882	.969928	.969975	.970031	.970068	47
934	.970347	.970393	.970440	.970486	.970533	46
935	.970812	.970858	.970004	.970951	.970997	46

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from 1 to 10000.

Num	5	6	7	8	9	Diff
898	2.953518	2.953566	2.953615	2.953663	2.953711	46
899	.954001	.954049	.954098	.954146	.954194	48
900	.954484	.954532	.954580	.954628	.954677	48
901	.954966	.955014	.955062	.955110	.955158	48
902	.955447	.955495	.955543	.955591	.955640	48
903	.955928	.955976	.956024	.956072	.956120	48
904	2.956409	2.956457	2.956505	2.956553	2.956601	48
905	.956888	.956936	.956984	.957032	.957080	48
906	.957368	.957416	.957464	.957511	.957559	48
907	.957847	.957894	.957942	.957990	.958038	48
908	.958325	.958373	.958420	.958468	.958516	48
909	.958803	.958850	.958898	.958946	.958994	48
910	2.959280	2.959328	2.959375	2.959423	2.959471	48
911	.959757	.959804	.959852	.959900	.959947	48
912	.960233	.960280	.960328	.960376	.960423	48
913	.960708	.960756	.960804	.960851	.960899	48
914	.961184	.961231	.961279	.961326	.961374	47
915	.961658	.961706	.961753	.961801	.961848	47
916	2.962132	2.962180	2.962227	2.962275	2.962322	47
917	.962606	.962653	.962701	.962748	.962795	47
918	.963079	.963126	.963174	.963221	.963268	47
919	.963552	.963599	.963646	.963693	.963741	47
920	.964024	.964071	.964118	.964165	.964212	47
921	.964495	.964542	.964590	.964637	.964684	47
922	2.964966	2.965013	2.965060	2.965108	2.965155	47
923	.965437	.965484	.965531	.965578	.965625	47
924	.965907	.965954	.966001	.966048	.966095	47
925	.966376	.966423	.966470	.966517	.966564	47
926	.966845	.966892	.966939	.966986	.967033	47
927	.967314	.967361	.967408	.967454	.967501	47
928	.967782	.967829	.967875	.967922	.967969	47
929	2.968249	2.968296	2.968343	2.968389	2.968436	47
930	.968716	.968763	.968810	.968856	.968903	47
931	.969183	.969229	.969276	.969323	.969369	47
932	.969649	.969695	.969742	.969788	.969835	47
933	.970114	.970161	.970207	.970254	.970300	47
934	.970579	.970626	.970672	.970719	.970765	46
935	.971044	.971090	.971137	.971183	.971229	46

A Table of Logarithms,

Num	0	1	2	3	4	Diff.
936	2.971276	2.971322	2.971369	2.971415	2.971461	46
937	.971740	.971786	.971832	.971879	.971925	46
938	.972203	.972249	.972295	.972342	.972388	46
939	.972666	.972712	.972758	.972804	.972851	46
940	.973128	.973174	.973220	.973266	.973313	46
941	.973590	.973636	.973682	.973728	.973774	46
942	2.974051	2.974097	2.974143	2.974189	2.974235	46
943	.974512	.974558	.974604	.974650	.974696	46
944	.974972	.975018	.975064	.975110	.975156	46
945	.975432	.975478	.975524	.975570	.975616	46
946	.975891	.975937	.975983	.976029	.976075	46
947	.976350	.976396	.976442	.976487	.976533	46
948	2.976808	2.976854	2.976900	2.976946	2.976991	46
949	.977266	.977312	.977358	.977403	.977449	46
950	.977724	.977769	.977815	.977861	.977906	46
951	.978180	.978226	.978272	.978317	.978363	46
952	.978637	.978683	.978728	.978774	.978819	46
953	.979093	.979138	.979184	.979230	.979275	46
954	2.979548	2.979594	2.979639	2.979685	2.979730	46
955	.980003	.980049	.980094	.980140	.980185	45
956	.980458	.980503	.980549	.980594	.980640	45
957	.980912	.980957	.981003	.981003	.981093	45
958	.981365	.981411	.981456	.981501	.981547	45
959	.981819	.981864	.981909	.981954	.982000	45
960	2.982271	2.982316	2.982362	2.982407	2.982452	45
961	.982723	.982769	.982814	.982859	.982904	45
962	.983175	.983220	.983265	.983310	.983356	45
963	.983626	.983671	.983716	.983762	.983807	45
964	.984077	.984122	.984167	.984212	.984257	45
965	.984527	.984572	.984617	.984662	.984707	45
966	.984977	.985022	.985067	.985112	.985157	45
967	2.985426	2.985471	2.985516	2.985561	2.985606	45
968	.985875	.985920	.985965	.986010	.986055	45
969	.986324	.986369	.986413	.986458	.986503	45
970	.986772	.986816	.986861	.986906	.986951	45
971	.987219	.987264	.987309	.987353	.987398	45
972	.987666	.987711	.987756	.987800	.987845	45
973	.988113	.988157	.988202	.988247	.988291	45

Num	5	6	7	8	9	Diff.
936	2.971508	2.971554	2.971600	2.971647	2.971693	46
937	.971971	.972018	.972064	.972110	.972156	46
938	.972434	.972480	.972527	.972573	.972619	46
939	.972897	.972943	.972989	.973035	.973082	46
940	.973359	.973405	.973451	.973497	.973543	46
941	.973820	.973866	.973913	.973959	.974005	46
942	2.974281	2.974327	2.974373	2.974420	2.974466	46
943	.974742	.974788	.974834	.974880	.974926	46
944	.975202	.975248	.975294	.975340	.975386	46
945	.975661	.975707	.975753	.975799	.975845	46
946	.976121	.976166	.976212	.976258	.976304	46
947	.976579	.976625	.976671	.976717	.976762	46
948	2.977037	2.977083	2.977129	2.977175	2.977220	46
949	.977495	.977541	.977586	.977632	.977678	46
950	.977952	.977998	.978043	.978089	.978135	46
951	.978409	.978454	.978500	.978546	.978591	46
952	.978865	.978911	.978956	.979002	.979047	46
953	.979321	.979366	.979412	.979457	.979503	46
954	2.979776	2.979821	2.979867	2.979912	2.979958	46
955	.980231	.980276	.980322	.980367	.980412	45
956	.980685	.980730	.980776	.980821	.980867	45
957	.981139	.981184	.981229	.981275	.981320	45
958	.981592	.981637	.981683	.981728	.981773	45
959	.982045	.982090	.982135	.982181	.982226	45
960	2.982497	2.982543	2.982588	2.982633	2.982678	45
961	.982949	.982994	.983040	.983085	.983130	45
962	.983401	.983446	.983491	.983536	.983581	45
963	.983852	.983897	.983942	.983987	.984032	45
964	.984302	.984347	.984392	.984437	.984482	45
965	.984752	.984797	.984842	.984887	.984932	45
966	.985202	.985247	.985292	.985337	.985382	45
967	2.985651	2.985696	2.985741	2.985786	2.985830	45
968	.986100	.986144	.986189	.986234	.986279	45
969	.986548	.986593	.986637	.986682	.986727	45
970	.986995	.987040	.987085	.987130	.987174	45
971	.987443	.987487	.987532	.987577	.987622	45
972	.987890	.987934	.987979	.988024	.988068	45
973	.988336	.988381	.988425	.988470	.988514	45

A Table of Logarithms,

Num.	0	1	2	3	4	Diff.
974	2.988559	2.988603	2.988648	2.988693	2.988737	45
975	.989005	.989049	.989094	.989138	.989183	45
976	.989450	.989494	.989539	.989583	.989628	44
977	.989895	.989939	.989983	.990028	.990072	44
978	.990339	.990383	.990428	.990472	.990516	44
979	2.990783	2.990827	2.990871	2.990916	2.990960	44
980	.991226	.991270	.991315	.991359	.991403	44
981	.991669	.991713	.991757	.991802	.991846	44
982	.992111	.992156	.992200	.992244	.992288	44
983	.992553	.992598	.992642	.992686	.992730	44
984	2.993295	2.993039	2.993083	2.993127	2.993172	44
985	.993436	.993480	.993524	.993568	.993613	44
986	.998877	.993921	.993965	.994009	.994053	44
987	.994367	.994361	.994405	.994449	.994493	44
988	.994757	.994801	.994845	.994889	.994933	44
989	2.995196	2.995240	2.995284	2.995328	2.995372	44
990	.995675	.995679	.995723	.995767	.995811	44
991	.996074	.996117	.996161	.996205	.996249	44
992	.996512	.996555	.996599	.996643	.996687	44
993	.996949	.996993	.997037	.997080	.997124	44
994	2.997386	2.997430	2.997474	2.997517	2.997561	44
995	.997823	.997867	.997910	.997954	.997998	44
996	.998259	.998303	.998346	.998390	.998434	44
997	.998695	.998739	.998782	.998826	.998869	44
998	.999130	.999174	.999218	.999261	.999305	44
999	.999565	.999609	.999652	.999696	.999739	43

from 1 to 10000.

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Num.	5	6	7	8	9	Diff.
974	2.988782	2.988826	2.988871	2.988915	2.988960	45
975	.989227	.989272	.989316	.989361	.989405	45
976	.989672	.989717	.989761	.989806	.989850	44
977	.990117	.990161	.990206	.990250	.990294	4
978	.990561	.990605	.990650	.990694	.990738	44
979	2.991004	2.991049	2.991093	2.991137	2.991182	44
980	.991448	.991492	.991536	.991580	.991625	44
981	.991890	.991934	.991979	.992023	.992067	44
982	.992333	.992377	.992421	.992465	.992509	44
983	.992774	.992818	.992863	.992907	.992951	44
984	2.993216	2.993260	2.993304	2.993348	2.993392	44
985	.993657	.993701	.993745	.993789	.993833	44
986	.994097	.994141	.994185	.994229	.994273	44
987	.994537	.994581	.994625	.994669	.994713	44
988	.994977	.995021	.995064	.995108	.995152	44
989	2.995416	2.995460	2.995504	2.995547	2.995591	44
990	.995854	.995898	.995942	.995986	.996030	44
991	.996293	.996336	.996380	.996424	.996468	44
992	.996730	.996774	.996818	.996862	.996905	44
993	.997168	.997212	.997255	.997299	.997343	44
994	2.997605	2.997648	2.997692	2.997736	2.997779	44
995	.998041	.998085	.998128	.998172	.998216	44
996	.998477	.998521	.998564	.998608	.998652	44
997	.998913	.998956	.999000	.999043	.999087	44
998	.999348	.999392	.999435	.999478	.999522	44
999	.999783	.999826	.999870	.999913	.999957	43

ADVERTISEMENT.

ALL Sorts of Meridian, Azimuths, and Amplitude Compasses, Running-glasses, Waggoners, Plats, Sea Charts, both Plain and *Mercator*: Likewise all sorts of Mathematical Instruments are made and sold by Wholesale or Retail, by *Jer. Seller* and *Cha. Price* at the *Hermitage-stairs*.

A

TRIANGULAR CANON
Logarithmical :

OR A

TABLE
O F

Artificial SINES, TANGENTS
and SECANTS, the Radius
10.000000 ; and to every
Degree and Minute of the
QUADRANT.

L O N D O N ,

Printed by *W. Redmyne* for *Jer. Seller*
and *Cha. Price*, 1701.

A Table of Artificial Sines,

o Degree.

Min.	Sine.	Tang.		Secant.		Min.
00	0000000	10.00000	0.00000	Infinite.	10.00000	Infinite.
16	463726	9.999999	6.463726	13.536274	10.00000	13.536274
26	764756	9.999999	6.764756	13.235244	10.00000	13.235244
36	940847	9.999999	6.940847	13.059152	10.00000	13.059153
47	065786	9.999999	7.065786	12.934214	10.00000	12.934214
57	162696	9.999999	7.162696	12.837304	10.00000	12.837304
67	241877	9.999999	7.241878	12.758122	10.00000	12.758123
77	308824	9.999999	7.308825	12.691175	10.00000	12.691176
87	366816	9.999999	7.366817	12.633183	10.00000	12.633184
97	417968	9.999998	7.417970	12.582030	10.00000	12.582032
10	463725	9.999998	7.463727	12.536273	10.00000	12.536274
11	505118	9.999998	7.505120	12.494880	10.00000	12.494882
12	542906	9.999997	7.542909	12.457091	10.00000	12.457093
13	577668	9.999997	7.577671	12.422328	10.00000	12.422332
14	609853	9.999996	7.609857	12.390143	10.00000	12.390147
15	639816	9.999996	7.639820	12.360180	10.00000	12.360184
16	667844	9.999995	7.667849	12.332151	10.00000	12.332155
17	694173	9.999995	7.694179	12.305821	10.00000	12.305827
18	718997	9.999994	7.718903	12.280997	10.00000	12.281003
19	742477	9.999993	7.742484	12.257516	10.00000	12.257522
20	764754	9.999993	7.764761	12.235239	10.00000	12.235246
21	785943	9.999992	7.785951	12.214049	10.00000	12.214057
22	806146	9.999991	7.806155	12.193845	10.00000	12.193854
23	825451	9.999990	7.825460	12.174540	10.00000	12.174549
24	843934	9.999989	7.843944	12.156056	10.00000	12.156066
25	861662	9.999988	7.861674	12.138326	10.00000	12.138338
26	878695	9.999988	7.878708	12.121292	10.00000	12.121305
27	895085	9.999987	7.895099	12.104901	10.00000	12.104915
28	910879	9.999986	7.910894	12.089106	10.00000	12.089121
29	926119	9.999984	7.926134	12.073866	10.00000	12.073881
30	940842	9.999983	7.940858	12.059162	10.00000	12.059158
		Sine.		Tang.		Secant.

Tangents and Secants.

o Degree.

Min.	Sine.	Tang.	Secant.	Min.
30	7.940842	9.999983	7.940858	12.059142
31	7.955082	9.999982	7.955100	12.044900
32	7.968870	9.999981	7.968889	12.031111
33	7.982233	9.999980	7.982253	12.017747
34	7.995198	9.999979	7.995219	12.004781
35	8.007787	9.999977	8.007809	11.992191
36	8.020021	9.999976	8.020044	11.979955
37	8.031919	9.999975	8.031945	11.968055
38	8.043501	9.999973	8.043527	11.956473
39	8.054781	9.999972	8.054809	11.945219
40	8.065776	9.999971	8.065806	11.934224
41	8.076500	9.999969	8.076531	11.923469
42	8.086965	9.999968	8.086997	11.913003
43	8.097183	9.999966	8.097217	11.902783
44	8.107167	9.999964	8.107202	11.892797
45	8.116926	9.999963	8.116963	11.883037
46	8.126471	9.999961	8.126510	11.873490
47	8.135810	9.999959	8.135851	11.864149
48	8.144953	9.999958	8.144996	11.855004
49	8.153907	9.999956	8.153952	11.846048
50	8.162681	9.999954	8.162727	11.837319
51	8.171280	9.999952	8.171328	11.828672
52	8.179713	9.999950	8.179763	11.820237
53	8.187985	9.999948	8.188036	11.811964
54	8.196102	9.999946	8.196156	11.803844
55	8.204070	9.999944	8.204126	11.795874
56	8.211895	9.999942	8.211953	11.788047
57	8.219581	9.999940	8.219641	11.780359
58	8.227133	9.999938	8.227195	11.772805
59	8.234557	9.999936	8.234621	11.765379
60	8.241855	9.999934	8.241921	11.758078
	Sine.	Tang.	Secant.	Min.

A Table of Artificial Sines,

I Degree.

Min.	Sine.		Tang.		Secant.		Min.
0	8.241855	9.999934	8.241921	11.758078	10.000066	11.758145	60
1	8.249033	9.999932	8.249101	11.750898	10.000068	11.750967	59
2	8.256094	9.999929	8.256165	11.743835	10.000071	11.743906	58
3	8.263042	9.999927	8.263115	11.736885	10.000073	11.730958	57
4	8.269881	9.999925	8.269956	11.730044	10.000075	11.730119	56
5	8.276614	9.999922	8.276691	11.723309	10.000078	11.723386	55
6	8.283243	9.999920	8.283323	11.716677	10.000080	11.716757	54
7	8.289773	9.999917	8.289856	11.710144	10.000082	11.710227	53
8	8.296207	9.999915	8.296292	11.703708	10.000085	11.703793	52
9	8.302546	9.999912	8.302633	11.697366	10.000087	11.697454	51
10	8.308794	9.999910	8.308884	11.691116	10.000090	11.691206	50
11	8.314954	9.999907	8.315046	11.684954	10.000093	11.685046	49
12	8.321027	9.999905	8.321122	11.678878	10.000095	11.678973	48
13	8.327016	9.999902	8.327114	11.672886	10.000098	11.672984	47
14	8.332924	9.999899	8.333025	11.666975	10.000101	11.667076	46
15	8.338753	9.999897	8.338856	11.661144	10.000103	11.661247	45
16	8.344504	9.999894	8.344612	11.655389	10.000106	11.655496	44
17	8.350180	9.999891	8.350289	11.649710	10.000109	11.649819	43
18	8.355783	9.999888	8.355895	11.644105	10.000112	11.644216	42
19	8.361315	9.999885	8.361430	11.638570	10.000115	11.638685	41
20	8.366777	9.999882	8.366894	11.633105	10.000118	11.633223	40
21	8.372171	9.999879	8.372291	11.627708	10.000121	11.627829	39
22	8.377499	9.999876	8.377622	11.622378	10.000124	11.622501	38
23	8.382762	9.999873	8.382889	11.617111	10.000127	11.617238	37
24	8.387962	9.999870	8.388092	11.611908	10.000130	11.612038	36
25	8.393101	9.999867	8.393234	11.606766	10.000133	11.606899	35
26	8.398179	9.999864	8.398315	11.601685	10.000136	11.601821	34
27	8.403199	9.999861	8.403338	11.596662	10.000139	11.596801	33
28	8.408161	9.999858	8.408304	11.591696	10.000142	11.591839	32
29	8.413068	9.999854	8.413213	11.586787	10.000146	11.586931	31
30	8.417919	9.999851	8.418068	11.581932	10.000149	11.582081	30

Sine.

Tang.

Secant.

29

Tangents and Secants,

I. Degree.

Min.	Sine.	Tang.	Secant.	
30	8.417919	9.999851	8.418068	11.581932
31	8.422717	9.999848	8.422869	11.577131
32	8.427462	9.999844	8.427618	11.572382
33	8.432156	9.999841	8.432315	11.567685
34	8.436800	9.999838	8.436962	11.563038
35	8.441394	9.999834	8.441560	11.558440
36	8.445941	9.999831	8.446110	11.553890
37	8.450440	9.999827	8.450613	11.549387
38	8.454893	9.999823	8.455070	11.544930
39	8.459301	9.999820	8.459481	11.540519
40	8.463664	9.999816	8.463849	11.536151
41	8.467985	9.999812	8.468172	11.531827
42	8.472263	9.999809	8.472454	11.527546
43	8.476498	9.999805	8.476693	11.523307
44	8.480693	9.999801	8.480892	11.519108
45	8.484848	9.999797	8.485050	11.514949
46	8.488963	9.999793	8.489170	11.510830
47	8.493040	9.999790	8.493250	11.506750
48	8.497078	9.999786	8.497293	11.502707
49	8.501080	9.999782	8.501298	11.498702
50	8.505045	9.999778	8.505267	11.494733
51	8.508974	9.999774	8.509200	11.490800
52	8.512867	9.999769	8.513098	11.486902
53	8.516726	9.999765	8.516961	11.483039
54	8.520551	9.999761	8.520790	11.479210
55	8.524343	9.999757	8.524586	11.475414
56	8.528102	9.999753	8.528349	11.471651
57	8.531828	9.999748	8.532080	11.467920
58	8.535523	9.999744	8.535779	11.464221
59	8.539186	9.999740	8.539447	11.460553
60	8.542819	9.999735	8.543084	11.456916
	Sine.	Tang.	Secant.	Min.

88 Degrees.

A Table of Artificial Sines,

2 Degrees.

Min.	Sine.		Tang.		Secant.		Min.
0	8.542815	9.999735	8.543084	11.456916	10.000265	11.457181	60
1	8.546422	9.999731	8.546691	11.453309	10.000269	11.453578	59
2	8.549999	9.999726	8.550268	11.449732	10.000273	11.450005	58
3	8.553539	9.999722	8.553817	11.446183	10.009278	11.446461	57
4	8.557054	9.999717	8.557336	11.442664	10.000283	11.442946	56
5	8.560540	9.999713	8.560828	11.439172	10.000287	11.439460	55
6	8.563999	9.999708	8.564291	11.435709	10.000292	11.436001	54
7	8.567433	9.999704	8.567727	11.432272	10.000296	11.432569	53
8	8.570836	9.999699	8.571137	11.428863	10.000301	11.429164	52
9	8.574214	9.999694	8.574520	11.425480	10.000306	11.425786	51
10	8.577566	9.999689	8.577877	11.422123	10.000311	11.422434	50
11	8.580892	9.999685	8.581208	11.418792	10.000315	11.419108	49
12	8.584193	9.999680	8.584514	11.415486	10.000320	11.415807	48
13	8.587469	9.999675	8.587794	11.412206	10.000325	11.412531	47
14	8.590721	9.999670	8.591051	11.408949	10.000330	11.409279	46
15	8.593948	9.999665	8.594283	11.405717	10.000335	11.406052	45
16	8.597152	9.999660	8.597492	11.402508	10.000340	11.402848	44
17	8.600332	9.999655	8.600677	11.399323	10.000345	11.399668	43
18	8.603489	9.999650	8.603839	11.396161	10.000350	11.396511	42
19	8.606623	9.999645	8.606978	11.393022	10.000355	11.393377	41
20	8.609734	9.999640	8.610094	11.389906	10.000360	11.390266	40
21	8.612823	9.999635	8.613189	11.386811	10.000365	11.387176	39
22	8.615891	9.999629	8.616262	11.383738	10.000371	11.384109	38
23	8.618937	9.999624	8.619313	11.380687	10.000376	11.381063	37
24	8.621962	9.999619	8.622343	11.377657	10.000381	11.378038	36
25	8.624965	9.999614	8.625352	11.374648	10.000386	11.375035	35
26	8.627948	9.999608	8.628340	11.371660	10.000392	11.372052	34
27	8.630911	9.999603	8.631308	11.368692	10.000397	11.369089	33
28	8.633854	9.999597	8.634256	11.365744	10.000403	11.366146	32
29	8.636776	9.999592	8.637184	11.362815	10.000408	11.363224	31
30	8.639690	9.999586	8.640093	11.359906	10.000413	11.360320	30
	Sine.		Tang.		Secant.		Min.

Tangents and Secants.

30

2 Degrees.

Min.	Sine.		Tang.		Secant.		Min.
30	8.639680	9.999586	8.640093	11.359907	10.000413	11.360320	30
31	8.642563	9.999581	8.642982	11.357017	10.000419	11.357437	29
32	8.645428	9.999575	8.645853	11.354147	10.000425	11.354572	28
33	8.648274	9.999570	8.648704	11.351296	10.000430	11.351726	27
34	8.651102	9.999564	8.651537	11.348462	10.000436	11.348898	26
35	8.653911	9.999558	8.654352	11.345648	10.000442	11.346089	25
36	8.656702	9.999553	8.657149	11.342851	10.000447	11.343298	24
37	8.659475	9.999547	8.659928	11.340072	10.000453	11.340525	23
38	8.662230	9.999541	8.662689	11.337311	10.000459	11.337770	22
39	8.664968	9.999535	8.665433	11.334567	10.000465	11.335032	21
40	8.667689	9.999529	8.668160	11.331840	10.000470	11.332311	20
41	8.670393	9.999524	8.670870	11.329130	10.000476	11.329607	19
42	8.673080	9.999518	8.673563	11.326437	10.000482	11.326920	18
43	8.675751	9.999512	8.676239	11.323761	10.000488	11.324249	17
44	8.678405	9.999506	8.678900	11.321100	10.000494	11.321595	16
45	8.681043	9.999500	8.681544	11.318456	10.000500	11.318957	15
46	8.683665	9.999493	8.684172	11.315828	10.000506	11.316335	14
47	8.686272	9.999487	8.686784	11.313216	10.000513	11.313727	13
48	8.688863	9.999481	8.689381	11.310619	10.000519	11.311135	12
49	8.691438	9.999475	8.691693	11.308037	10.000525	11.308562	11
50	8.693998	9.999469	8.694529	11.305471	10.000531	11.306002	10
51	8.696543	9.999462	8.697081	11.302919	10.000537	11.303457	9
52	8.699073	9.999456	8.699617	11.300383	10.000544	11.300927	8
53	8.701589	9.999450	8.702139	11.297861	10.000550	11.298411	7
54	8.704090	9.999443	8.704646	11.295353	10.000556	11.295910	6
55	8.706577	9.999437	8.707139	11.292860	10.000563	11.293423	5
56	8.709049	9.999431	8.709618	11.290381	10.000569	11.290951	4
57	8.711507	9.999424	8.712083	11.287917	10.000576	11.288492	3
58	8.713952	9.999418	8.714534	11.285465	10.000582	11.286048	2
59	8.716383	9.999411	8.716972	11.283028	10.000589	11.283617	1
60	8.718800	9.999404	8.719396	11.280604	10.000596	11.281200	0

Sine.

Tang.

Secant.

87 Degrees.

I

A Table of Artificial Sines,

3 Degrees.

Min.	Sine.	Tang.	Secant.	Min.
0	8.718800	9.999404	8.719396	11.280604
1	8.721204	9.999398	8.721806	11.278194
2	8.723595	9.999391	8.724203	11.275796
3	8.725972	9.999384	8.726588	11.273412
4	8.728337	9.999378	8.728959	11.271041
5	8.730688	9.999371	8.731317	11.268683
6	8.733027	9.999364	8.733663	11.266337
7	8.735353	9.999357	8.735996	11.264004
8	8.737667	9.999350	8.738317	11.261683
9	8.739969	9.999343	8.740626	11.259374
10	8.742259	9.999336	8.742922	11.257078
11	8.744536	9.999329	8.745207	11.254793
12	8.746801	9.999322	8.747479	11.252521
13	8.749055	9.999315	8.749740	11.250260
14	8.751297	9.999308	8.751989	11.24801
15	8.753528	9.999301	8.754227	11.245773
16	8.755747	9.999294	8.756453	11.243547
17	8.757955	9.999286	8.758668	11.241332
18	8.760151	9.999279	8.760872	11.239128
19	8.762337	9.999272	8.763065	11.236935
20	8.764511	9.999265	8.765246	11.234753
21	8.766675	9.999257	8.767417	11.232582
22	8.768827	9.999250	8.769578	11.230422
23	8.770970	9.999242	8.771727	11.228273
24	8.773101	9.999235	8.773866	11.226133
25	8.775223	9.999227	8.775993	11.224005
26	8.777333	9.999220	8.778114	11.221886
27	8.779434	9.999212	8.780222	11.219778
28	8.781524	9.999205	8.782320	11.217680
29	8.783605	9.999197	8.784408	11.215592
30	8.785675	9.999189	8.786486	11.213514
	Sine.	Tang.	Secant.	Min.

86 Degrees.

Tangents and Secants.

3 Degrees.

Min.	Sine.	Tang.	Secant.	Min.
30	8.7856759.999189	8.786486	11.213514	10.000811
31	8.7877369.999181	8.788554	11.211446	10.000818
32	8.7897879.999174	8.790613	11.209387	10.000826
33	8.7918289.999166	8.792662	11.207338	10.000834
34	8.7938599.999158	8.794701	11.205299	10.000842
35	8.7958819.999150	8.796732	11.203269	10.000850
36	8.7978949.999142	8.798752	11.201248	10.000858
37	8.7998979.999134	8.800763	11.199237	10.000866
38	8.8018919.999126	8.802765	11.197235	10.000874
39	8.8038769.999118	8.804758	11.195242	10.000882
40	8.8058529.999110	8.806742	11.193258	10.000890
41	8.8078199.999102	8.808717	11.191283	10.000898
42	8.8097779.999094	8.810683	11.189317	10.000906
43	8.8117269.999086	8.812641	11.187359	10.000914
44	8.8136679.999077	8.814589	11.185411	10.000923
45	8.8155989.999069	8.816529	11.183471	10.000931
46	8.8175229.999061	8.818461	11.181539	10.000939
47	8.8194369.999052	8.820384	11.179616	10.000947
48	8.8213429.999044	8.822298	11.177702	10.000956
49	8.8232409.999036	8.824205	11.175795	10.000964
50	8.8251309.999027	8.826103	11.173897	10.000973
51	8.8270119.999019	8.827992	11.172008	10.000981
52	8.8288849.999010	8.829874	11.170126	10.000990
53	8.8307499.999002	8.831748	11.168252	10.000998
54	8.8326079.998993	8.833613	11.166387	10.001007
	Sine.	Tang.	Secant.	Min.

86 Degrees.

A Table of Artificial Sines,

4 Degrees.

Min.	Sine.	Tang.	Secant.	Min.
0	8.8435849.998941	8.844644	11.155356	10.001059 11.156415 60
1	8.8453879.998932	8.846455	11.153545	10.001068 11.154613 59
2	8.8471839.998923	8.848260	11.151740	10.001077 11.152817 58
3	8.8489719.998914	8.850056	11.149943	10.001086 11.151029 57
4	8.8507519.998905	8.851846	11.148154	10.001095 11.149249 56
5	8.8525249.998896	8.853628	11.146372	10.001104 11.147475 55
6	8.8542909.998887	8.855403	11.144597	10.001113 11.145709 54
7	8.8560499.998878	8.857171	11.142829	10.001122 11.143951 53
8	8.8578019.998869	8.858932	11.141068	10.001131 11.142199 52
9	8.8599469.998860	8.860086	11.139314	10.001140 11.140554 51
10	8.8612839.998851	8.862433	11.137567	10.001149 11.138717 50
11	8.8630149.998841	8.864172	11.135827	10.001159 11.136986 49
12	8.8647389.998832	8.865905	11.134094	10.001168 11.135262 48
13	8.8664549.998823	8.867632	11.132368	10.001177 11.133545 47
14	8.8681659.998813	8.869351	11.130649	10.001186 11.131835 46
15	8.8698689.998804	8.871064	11.128936	10.001196 11.130132 45
16	8.8715659.998795	8.872770	11.127230	10.001205 11.128435 44
17	8.8732559.998785	8.874469	11.125531	10.001215 11.126745 43
18	8.8749389.998776	8.876162	11.123838	10.001224 11.125062 42
19	8.8766159.998766	8.877849	11.122151	10.001234 11.123385 41
20	8.8782859.998757	8.879529	11.120471	10.001243 11.121715 40
21	8.8799499.998747	8.881202	11.118798	10.001253 11.120051 39
22	8.8816079.998737	8.882869	11.117131	10.001262 11.118393 38
23	8.8832539.998728	8.884530	11.115470	10.001272 11.116742 37
24	8.8849039.998718	8.886185	11.113815	10.001282 11.115097 36
25	8.8865429.998708	8.887833	11.112167	10.001292 11.113458 35
26	8.8881749.998699	8.889476	11.110524	10.001301 11.111826 34
27	8.8898019.998689	8.891112	11.108888	10.001311 11.110194 33
28	8.8914219.998679	8.892742	11.107258	10.001321 11.108579 32
29	8.8930359.998669	8.894366	11.105634	10.001331 11.106965 31
30	8.8946439.998659	8.895984	11.104016	10.001341 11.105357 30
	Sine.	Tang.	Secant.	Min.

85 Degrees.

Tangents and Secants.

4 Degrees.

Min.	Sine.		Tang.		Secant.	
30	8.894643	9.998659	8.895984	11.104016	10.001341	11.105357 30
31	8.896245	9.998649	8.897596	11.102404	10.001351	11.103754 29
32	8.897842	9.998639	8.899203	11.100797	10.001361	11.102158 28
33	8.899432	9.998629	8.900803	11.099197	10.001371	11.100568 27
34	8.901017	9.998619	8.902398	11.097602	10.001381	11.098983 26
35	8.902595	9.998609	8.903987	11.096013	10.001391	11.097404 25
36	8.904168	9.998599	8.905570	11.094430	10.001401	11.095831 24
37	8.905736	9.998589	8.907147	11.092853	10.001411	11.094264 23
38	8.907297	9.998578	8.908719	11.091281	10.001422	11.092702 22
39	8.908853	9.998568	8.910285	11.089715	10.001432	11.091146 21
40	8.910404	9.998558	8.911846	11.088154	10.001442	11.089596 20
41	8.911949	9.998547	8.913401	11.086599	10.001452	11.088051 19
42	8.913488	9.998537	8.914951	11.085049	10.001463	11.086512 18
43	8.915022	9.998527	8.916495	11.083505	10.001473	11.084978 17
44	8.916550	9.998516	8.918034	11.081966	10.001484	11.083450 16
45	8.918073	9.998506	8.919567	11.080432	10.001494	11.081927 15
46	8.919591	9.998495	8.921096	11.078904	10.001505	11.080409 14
47	8.921103	9.998485	8.922619	11.077381	10.001515	11.078897 13
48	8.922610	9.998474	8.924136	11.075864	10.001526	11.077389 12
49	8.924112	9.998464	8.925649	11.074351	10.001536	11.075888 11
50	8.925609	9.998453	8.927156	11.072854	10.001547	11.074391 10
51	8.927100	9.998442	8.928658	11.071342	10.001558	11.072900 9
52	8.928587	9.998431	8.930155	11.069845	10.001568	11.071413 8
53	8.930068	9.998421	8.931647	11.068353	10.001579	11.069932 7
54	8.931544	9.998410	8.933134	11.066866	10.001590	11.068456 6
55	8.933015	9.998399	8.934616	11.065384	10.001601	11.066985 5
56	8.934481	9.998388	8.936093	11.063907	10.001612	11.065519 4
57	8.935942	9.998377	8.937565	11.062435	10.001623	11.064058 3
58	8.937398	9.998366	8.939032	11.060968	10.001634	11.062602 2
59	8.938850	9.998355	8.940494	11.059506	10.001645	11.061150 1
60	8.940296	9.998344	8.941952	11.058048	10.001656	11.059704 0
		Sine.		Tang.		Secant.

85 Degrees.

A Table of Artificial Sines,

5 Degrees.

Min.	Sine.	Tang.		Secant.		Min.	
0	8.940296	9.998344	8.941952	11.058048	10.001656	11.059704	60
1	8.941738	9.998333	8.943404	11.056596	10.001667	11.058262	59
2	8.943174	9.998322	8.944852	11.055148	10.001678	11.056826	58
3	8.944606	9.998311	8.946295	11.053705	10.001689	11.055394	57
4	8.946033	9.998300	8.947734	11.052266	10.001700	11.053966	56
5	8.947456	9.998288	8.949168	11.050832	10.001711	11.052544	55
6	8.948874	9.998277	8.950597	11.049403	10.001723	11.051126	54
7	8.950287	9.998266	8.952021	11.047979	10.001734	11.049713	53
8	8.951696	9.998255	8.953441	11.046559	10.001745	11.048304	52
9	8.953100	9.998243	8.954856	11.045144	10.001757	11.046900	51
10	8.954499	9.998232	8.956267	11.043733	10.001768	11.045501	50
11	8.955896	9.998220	8.957673	11.042326	10.001780	11.044106	49
12	8.957284	9.998209	8.959075	11.040925	10.001791	11.042716	48
13	8.958670	9.998197	8.960473	11.039527	10.001803	11.041330	47
14	8.960053	9.998186	8.961885	11.038134	10.001814	11.039948	46
15	8.961429	9.998174	8.963254	11.036745	10.001826	11.038571	45
16	8.962801	9.998163	8.964639	11.035361	10.001837	11.037199	44
17	8.964170	9.998151	8.966019	11.033981	10.001849	11.035830	43
18	8.965534	9.998139	8.967394	11.032666	10.001861	11.034466	42
19	8.966893	9.998127	8.968766	11.031234	10.001872	11.033107	41
20	8.968249	9.998116	8.970133	11.029857	10.001884	11.031751	40
21	8.969600	9.998104	8.971496	11.028504	10.001896	11.030400	39
22	8.970947	9.998092	8.972855	11.027145	10.001908	11.029053	38
23	8.972289	9.998080	8.974209	11.025791	10.001920	11.027710	37
24	8.973628	9.998068	8.975560	11.024440	10.001932	11.026372	36
25	8.974962	9.998056	8.976905	11.023094	10.001944	11.025038	35
26	8.976293	9.998044	8.978248	11.021751	10.001956	11.023707	34
27	8.977619	9.998032	8.979586	11.020413	10.001968	11.022381	33
28	8.978941	9.998020	8.980921	11.019079	10.001980	11.021050	32
29	8.980259	9.998008	8.982251	11.017749	10.001992	11.019741	31
30	8.981573	9.997996	8.983577	11.016423	10.002004	11.018427	30

Sine.

Tang.

Secant.

Min.

84 Degrees.

33
Tangents and Secants.

5 Degrees.

Min.	Sine.	Tang.	Secant.	Min.
30	8.9815739.997996	8.983577	11.016423 10.002064	11.018427 30
31	8.9828839.997984	8.984899	11.015101 10.002016	11.017117 29
32	8.9841899.997972	8.986217	11.013783 10.002028	11.015811 28
33	8.9854919.997959	8.987532	11.012468 10.002041	11.014509 27
34	8.9867899.997947	8.988842	11.011158 10.002053	11.013211 26
35	8.9880839.997935	8.990149	11.009851 10.002065	11.011917 25
36	8.9893749.997922	8.991451	11.008549 10.002078	11.010626 24
37	8.9906609.997910	8.992750	11.007250 10.002090	11.009340 23
38	8.9919439.997897	8.994045	11.005955 10.002102	11.008057 22
39	8.9932229.997885	8.995337	11.004663 10.002125	11.006778 21
40	8.9944979.997872	8.996624	11.003376 10.002127	11.005503 20
41	8.9957689.997859	8.997908	11.002092 10.002141	11.004232 19
42	8.9970369.997847	8.999188	11.000812 10.002153	11.002964 18
43	8.9982999.997835	9.000465	10.999535 10.002165	11.001701 17
44	8.9995599.997822	9.001737	10.998262 10.002178	11.000440 16
45	9.0008169.997809	9.003007	10.996993 10.002191	10.999184 15
46	9.0020699.997797	9.004272	10.995728 10.002203	10.997931 14
47	9.0033189.997784	9.005534	10.994466 10.002216	10.996682 13
48	9.0045639.997771	9.006792	10.993208 10.002225	10.995437 12
49	9.0058059.997758	9.008047	10.991953 10.002242	10.994195 11
50	9.0070449.997745	9.009298	10.990702 10.002255	10.992956 10
51	9.0082789.997732	9.010546	10.989454 10.002268	10.991722 9
52	9.0095109.997719	9.011790	10.988210 10.002281	10.990490 8
53	9.0107379.997706	9.013031	10.986969 10.002294	10.989263 7
54	9.0119629.997693	9.014268	10.985732 10.002307	10.988038 6
55	9.0131829.997680	9.015502	10.984498 10.002320	10.986818 5
56	9.0144009.997667	9.016732	10.983267 10.002333	10.985600 4
57	9.0156139.997654	9.017959	10.982041 10.002346	10.984386 3
58	9.0168249.997641	9.019183	10.980817 10.002359	10.983176 2
59	9.0180319.997628	9.020400	10.979597 10.002372	10.981969 1
60	9.0192309.997614	9.021620	10.978380 10.002386	10.980765 0
	Sine.	Tang.	Secant.	Min.

84 Degrees.

A Table of Artificial Sines,

6 Degrees.

Min.	Sine.	Tang.	Secant.	Min.	
0	9.019235	9.997614	9.021620	10.978380	60
1	9.020435	9.997601	9.022834	10.977166	59
2	9.021632	9.997588	9.024044	10.975956	58
3	9.022825	9.997574	9.025251	10.974749	57
4	9.024016	9.997561	9.026455	10.973545	56
5	9.025203	9.997547	9.027655	10.972345	55
6	9.026386	9.997534	9.028852	10.971148	54
7	9.027567	9.997520	9.030046	10.969954	53
8	9.028744	9.997507	9.031237	10.968763	52
9	9.029918	9.997493	9.032425	10.967575	51
10	9.031089	9.997480	9.033609	10.966391	50
11	9.032257	9.997466	9.034791	10.965209	49
12	9.033421	9.997452	9.035969	10.964031	48
13	9.034582	9.997439	9.037144	10.962856	47
14	9.035741	9.997425	9.038316	10.961684	46
15	9.036896	9.997411	9.039485	10.960515	45
16	9.038048	9.997397	9.040651	10.959349	44
17	9.039197	9.997383	9.041813	10.958187	43
18	9.040342	9.997369	9.042973	10.957027	42
19	9.041485	9.997355	9.044130	10.955870	41
20	9.042625	9.997341	9.045284	10.954716	40
21	9.043762	9.997327	9.046434	10.953566	39
22	9.044895	9.997313	9.047582	10.952418	38
23	9.046026	9.997299	9.048727	10.951273	37
24	9.047154	9.997285	9.049869	10.950131	36
25	9.048279	9.997271	9.051008	10.948992	35
26	9.049400	9.997257	9.052144	10.947856	34
27	9.050519	9.997242	9.053277	10.946723	33
28	9.051635	9.997228	9.054407	10.945593	32
29	9.052748	9.997214	9.055535	10.944465	31
30	9.053859	9.997199	9.056659	10.943340	30
	Sine.	Tang.	Secant.	Min.	

83 Degrees.

Tangents and Secants.

6 Degrees.

Min.	Sine.		Tang.		Secant.	
30	9.053859	9.997199	9.056659	10.943340	10.002801	10.946141 30
31	9.054966	9.997185	9.057781	10.942219	10.002815	10.945034 29
32	9.056071	9.997170	9.058900	10.941100	10.002830	10.943929 28
33	9.057172	9.997156	9.060016	10.939984	10.002844	10.942838 27
34	9.058271	9.997141	9.061130	10.938870	10.002859	10.941729 26
35	9.059367	9.997127	9.062240	10.937760	10.002873	10.940633 25
36	9.060460	9.997112	9.063348	10.936652	10.002888	10.939540 24
37	9.061551	9.997098	9.064453	10.935547	10.002902	10.938449 23
38	9.062639	9.997083	9.065556	10.934444	10.002917	10.937361 22
39	9.063723	9.997068	9.066655	10.933345	10.002932	10.936276 21
40	9.064806	9.997053	9.067752	10.932248	10.002946	10.935194 20
41	9.065885	9.997039	9.068846	10.931153	10.002961	10.934115 19
42	9.066962	9.997024	9.069938	10.930062	10.002976	10.933038 18
43	9.068036	9.997009	9.071027	10.928973	10.002991	10.931964 17
44	9.069107	9.996994	9.072113	10.927887	10.003006	10.930893 16
45	9.070176	9.996979	9.073197	10.926803	10.003021	10.929824 15
46	9.071242	9.996964	9.074278	10.925722	10.003036	10.928758 14
47	9.072305	9.996949	9.075356	10.924644	10.003051	10.927654 13
48	9.073366	9.996934	9.076432	10.923568	10.003066	10.926634 12
49	9.074424	9.996919	9.077505	10.922450	10.003081	10.925576 11
50	9.075480	9.996904	9.078576	10.921424	10.003096	10.924520 10
51	9.076533	9.996889	9.079644	10.920356	10.003111	10.923467 9
52	9.077583	9.996874	9.080710	10.919290	10.003126	10.922417 8
53	9.078631	9.996858	9.081773	10.918227	10.003142	10.921369 7
54	9.079676	9.996843	9.082834	10.917167	10.003157	10.920224 6
55	9.080719	9.996828	9.083891	10.916109	10.003172	10.919281 5
56	9.081759	9.996812	9.084947	10.915053	10.003187	10.918248 4
57	9.082797	9.996797	9.0860	10.914000	10.003203	10.917223 3
58	9.083832	9.996782	9.087050	10.912950	10.003218	10.916168 2
59	9.084864	9.996766	9.088098	10.911902	10.003234	10.915136 1
60	9.085894	9.996751	9.089144	10.910856	10.003249	10.914105 0

Sine.

Tang.

Secant.

83 Degrees.

K

A Table of Artificial Sines.

77 Degrees.

Min.	Sine.		Tang.		Secant.		Min.
0	9.085894	9.996751	9.089144	10.910856	10.003249	10.914105	60
1	9.086922	9.996735	9.090187	10.909813	10.003265	10.913078	59
2	9.087947	9.996720	9.091228	10.908772	10.003280	10.912053	58
3	9.088970	9.996704	9.092266	10.907734	10.003296	10.911030	57
4	9.089990	9.996688	9.093302	10.906698	10.003312	10.910010	56
5	9.091008	9.996673	9.094335	10.905664	10.003327	10.908992	55
6	9.092024	9.996657	9.095367	10.904633	10.003343	10.907976	54
7	9.093037	9.996641	9.096396	10.903604	10.003359	10.906963	53
8	9.094047	9.996625	9.097402	10.902578	10.003375	10.905953	52
9	9.095056	9.996610	9.098446	10.901554	10.003390	10.904944	51
10	9.096061	9.996594	9.099468	10.900532	10.003406	10.903938	50
11	9.097065	9.996578	9.100487	10.899513	10.003422	10.902935	49
12	9.098066	9.996562	9.101504	10.898496	10.003438	10.901934	48
13	9.099065	9.996546	9.102519	10.897481	10.003454	10.900935	47
14	9.100062	9.996530	9.103532	10.896468	10.003470	10.899938	46
15	9.101056	9.996514	9.104542	10.895458	10.003486	10.898944	45
16	9.102048	9.996498	9.105550	10.894450	10.003502	10.897952	44
17	9.103037	9.996482	9.106556	10.893444	10.003518	10.896963	43
18	9.104025	9.996465	9.107559	10.892441	10.003534	10.895975	42
19	9.105010	9.996449	9.108560	10.891440	10.003551	10.894990	41
20	9.105992	9.996433	9.109559	10.890441	10.003567	10.894008	40
21	9.106973	9.996417	9.110556	10.889444	10.003583	10.893027	39
22	9.107951	9.996400	9.111551	10.888449	10.003600	10.892049	38
23	9.108927	9.996384	9.112543	10.887457	10.003616	10.891073	37
24	9.109901	9.996368	9.113533	10.886467	10.003632	10.890099	36
25	9.110873	9.996351	9.114521	10.885479	10.003649	10.889127	35
26	9.111842	9.996335	9.115507	10.884493	10.003665	10.888158	34
27	9.112809	9.996318	9.116491	10.883509	10.003682	10.887191	33
28	9.113774	9.996302	9.117472	10.882528	10.003698	10.886226	32
29	9.114737	9.996285	9.118452	10.881548	10.003715	10.885263	31
30	9.115698	9.996269	9.119429	10.880571	10.003731	10.884302	30

Sine.

Tang.

Secant.

82 Degrees.

Tangents and Secants.

35

7 Degrees.

Min.	Sine.	Tang.	Secant.	Min.
309.115698	9.996269	9.119429	10.880571	10.884302 30
319.116656	9.996252	9.120404	10.879596	10.883344 29
329.117612	9.996235	9.121377	10.878623	10.882387 28
339.118567	9.996218	9.122348	10.876553	10.881433 27
349.119519	9.996202	9.123317	10.876683	10.880481 26
359.120463	9.996185	9.124284	10.875716	10.879531 25
369.121417	9.996168	9.125249	10.874757	10.878583 24
379.122362	9.996151	9.126201	10.873789	10.877638 23
389.123306	9.996134	9.127172	10.872828	10.876694 22
399.124248	9.996117	9.128130	10.871870	10.875752 21
409.125187	9.996100	9.129087	10.870913	10.874813 20
419.126125	9.996083	9.130041	10.869959	10.873875 19
429.127060	9.996066	9.130994	10.869006	10.872949 18
439.127993	9.996049	9.131944	10.868056	10.872007 17
449.128925	9.996032	9.132893	10.867107	10.871075 16
459.129854	9.996015	9.133839	10.866161	10.870146 15
469.130781	9.995998	9.134783	10.865216	10.869219 14
479.131706	9.995980	9.135726	10.864274	10.868294 13
489.132630	9.995963	9.136666	10.863333	10.867370 12
499.133551	9.995946	9.137601	10.862395	10.866449 11
509.134470	9.995928	9.138542	10.861458	10.865530 10
519.135387	9.995911	9.139476	10.860524	10.864612 9
529.136303	9.995894	9.140409	10.859591	10.863697 8
539.137216	9.995876	9.141340	10.858660	10.862784 7
549.138122	9.995859	9.142269	10.857731	10.861872 6
559.139037	9.995841	9.143196	10.856804	10.860963 5
569.139944	9.995823	9.144121	10.855879	10.860055 4
579.140850	9.995806	9.145044	10.854956	10.859150 3
589.141754	9.995788	9.145965	10.854034	10.858246 2
599.142655	9.995770	9.146885	10.853115	10.857344 1
609.143555	9.995753	9.147802	10.852197	10.856445 0
	Sine.	Tang.	Secant.	Min.

82 Degrees.

K 2

A Table of Artificial Sines,

8 Degrees.

Min.	Sine.	Tang.	Secant.	Min.	
0	9.143555	9.995753	9.147802	10.852197	30
1	9.144453	9.995735	9.148718	10.851282	31
2	9.145349	9.995717	9.149632	10.850368	32
3	9.146243	9.995699	9.150544	10.849456	33
4	9.147136	9.995681	9.151454	10.848546	34
5	9.148026	9.995663	9.152363	10.847637	35
6	9.148915	9.995646	9.153269	10.846731	36
7	9.149801	9.995628	9.154174	10.845826	37
8	9.150686	9.995609	9.155077	10.844923	38
9	9.151569	9.995591	9.155978	10.844022	39
10	9.152451	9.995573	9.156887	10.843123	40
11	9.153330	9.995555	9.157775	10.842225	41
12	9.154208	9.995537	9.158671	10.841329	42
13	9.155083	9.995519	9.159565	10.840435	43
14	9.155957	9.995500	9.160457	10.839543	44
15	9.156830	9.995482	9.161347	10.838653	45
16	9.157700	9.995464	9.162236	10.837764	46
17	9.158569	9.995445	9.163123	10.836877	47
18	9.159435	9.995427	9.164008	10.835992	48
19	9.160300	9.995409	9.164892	10.835108	49
20	9.161164	9.995390	9.165774	10.834226	50
21	9.162025	9.995372	9.166654	10.833346	51
22	9.162885	9.995353	9.167532	10.832468	52
23	9.163743	9.995334	9.168499	10.831591	53
24	9.164600	9.995316	9.169384	10.830716	54
25	9.165454	9.995297	9.170157	10.829843	55
26	9.166307	9.995278	9.171029	10.828971	56
27	9.167159	9.995260	9.171899	10.828101	57
28	9.168008	9.995241	9.172767	10.827233	58
29	9.168856	9.995222	9.173634	10.826366	59
30	9.169702	9.995203	9.174499	10.825501	60

Sine. | Tang. | Secant.

81 Degrees.

36

Tangents and Secants.

8 Degrees.

Min.	Sine.	Tang.	Secant.	Min.
30	9.169702	9.995203	9.174499	10.825501
31	9.170546	9.995184	9.175362	10.824638
32	9.171389	9.995165	9.176224	10.823776
33	9.172230	9.995146	9.177084	10.822916
34	9.173070	9.995127	9.177942	10.822057
35	9.173908	9.995108	9.178799	10.821201
36	9.174744	9.995089	9.179655	10.820345
37	9.175578	9.995070	9.180508	10.819492
38	9.176411	9.995051	9.181360	10.818640
39	9.177242	9.995032	9.182211	10.817789
40	9.178072	9.995013	9.183059	10.816940
41	9.178900	9.994993	9.183907	10.816093
42	9.179726	9.994974	9.184752	10.815247
43	9.180551	9.994955	9.185597	10.814403
44	9.181374	9.994935	9.186439	10.813561
45	9.182196	9.994916	9.187280	10.812720
46	9.183016	9.994896	9.188120	10.811880
47	9.183834	9.994877	9.188957	10.811042
48	9.184651	9.994857	9.189794	10.810206
49	9.185466	9.994838	9.190629	10.809371
50	9.186280	9.994818	9.191462	10.808538
51	9.187092	9.994798	9.192294	10.807706
52	9.187903	9.994779	9.193124	10.806876
53	9.188712	9.994759	9.193953	10.806047
54	9.189519	9.994739	9.194780	10.805220
55	9.190325	9.994729	9.195606	10.804394
56	9.191130	9.994700	9.196430	10.803570
57	9.191933	9.994680	9.197253	10.802747
58	9.192734	9.994660	9.198074	10.801926
59	9.193534	9.994640	9.198894	10.801106
60	9.194332	9.994620	9.199712	10.800287
1	Sine.	Tang.	Secant.	Min.

81 Degrees.

A Table of Artificial Sines,

9 Degrees.

Mi.	Sine.	Tang.	Secant.	Mi.
09.194332	9.994620	9.199712	10.800287	10.805668
19.195129	9.994600	9.200529	10.799471	10.804876
29.195925	9.994580	9.201345	10.798655	10.804075
39.196719	9.994560	9.202159	10.797841	10.803281
49.197511	9.994540	9.202971	10.797029	10.802489
59.198302	9.994519	9.203782	10.796217	10.801698
69.199091	9.994499	9.204592	10.795408	10.800909
79.199879	9.994479	9.205400	10.794600	10.800121
89.200666	9.994459	9.206207	10.793793	10.799334
99.201451	9.994438	9.207013	10.792987	10.79849
109.202234	9.994418	9.207816	10.792183	10.797765
119.203017	9.994397	9.208619	10.791381	10.796983
129.203797	9.994377	9.209420	10.790580	10.796203
139.204577	9.994357	9.210220	10.789780	10.795423
149.205354	9.994336	9.211018	10.788982	10.794645
159.206131	9.994316	9.211815	10.788185	10.793869
169.206906	9.994295	9.212611	10.787389	10.793094
179.207679	9.994274	9.213405	10.786595	10.792320
189.208452	9.994254	9.214198	10.785802	10.791548
199.209222	9.994233	9.214989	10.785011	10.790778
209.209992	9.994212	9.215779	10.784220	10.790008
219.210760	9.994191	9.216568	10.783432	10.789240
229.211526	9.994171	9.217356	10.782644	10.788474
239.212291	9.994150	9.218142	10.781858	10.787709
249.213055	9.994129	9.218926	10.781074	10.786945
259.213818	9.994108	9.219710	10.780290	10.786182
269.214579	9.994087	9.220492	10.779508	10.785421
279.215338	9.994066	9.221272	10.778728	10.784662
289.216097	9.994045	9.222052	10.777948	10.783903
299.216854	9.994024	9.222830	10.777170	10.783146
309.217609	9.994003	9.223606	10.776393	10.782391

Sine.

Tang.

Secant.

86 Degrees.

57

Tangents and Secants.

9 Degrees.

Min.	Sine.	Tang.	Secant.	Min.
30	9.217609	9.994003	9.223606	10.776393
31	9.218363	9.993981	9.224382	10.775618
32	9.219116	9.993960	9.225156	10.774844
33	9.219868	9.993939	9.225929	10.774071
34	9.220618	9.993918	9.226700	10.773300
35	9.221367	9.993896	9.227471	10.772529
36	9.222115	9.993875	9.228239	10.771760
37	9.222861	9.993854	9.229007	10.770993
38	9.223606	9.993832	9.229773	10.770226
39	9.224349	9.993811	9.230539	10.769461
40	9.225092	9.993789	9.231308	10.768698
41	9.225833	9.993768	9.232065	10.767935
42	9.226572	9.993746	9.232826	10.767174
43	9.227311	9.993725	9.233586	10.766414
44	9.228048	9.993703	9.234345	10.765655
45	9.228784	9.993681	9.235103	10.764897
46	9.229518	9.993660	9.235859	10.764141
47	9.230252	9.993638	9.236614	10.763386
48	9.230984	9.993616	9.237368	10.762632
49	9.231714	9.993594	9.238120	10.761880
50	9.232444	9.993572	9.238872	10.761128
51	9.233172	9.993550	9.239622	10.760378
52	9.233899	9.993528	9.240371	10.759629
53	9.234625	9.993506	9.241118	10.758881
54	9.235349	9.993484	9.241865	10.758135
55	9.236073	9.993462	9.242610	10.757390
56	9.236795	9.993440	9.243354	10.756646
57	9.237515	9.993418	9.244097	10.755903
58	9.238235	9.993396	9.244839	10.755161
59	9.238953	9.993374	9.245579	10.754421
60	9.239670	9.993351	9.246319	10.753683
	Sine.	Tang.	Secant.	

80 Degrees.

A Table of Artificial Sines,

10 Degrees.

Min.	Sine.	Tang.	Secant.	
09.239670	9.993351	9.246319	10.753681	10.760330
19.240386	9.993329	9.247057	10.752943	10.759614
29.241101	9.993307	9.247794	10.752206	10.758899
39.241814	9.993284	9.248530	10.751470	10.758186
49.242526	9.993262	9.249264	10.750736	10.757474
59.243237	9.993240	9.249998	10.750002	10.756763
69.243947	9.993217	9.250730	10.749270	10.756053
79.244656	9.993195	9.251461	10.748539	10.755344
89.245363	9.993172	9.252191	10.747809	10.754637
99.246069	9.993149	9.252920	10.747080	10.753930
109.246775	9.993127	9.253648	10.746352	10.753225
119.247478	9.993104	9.25434	10.745626	10.752522
129.248181	9.993081	9.255100	10.744900	10.751819
139.248883	9.993059	9.255824	10.744176	10.751117
149.249583	9.993036	9.256547	10.743453	10.750417
159.250282	9.993013	9.257269	10.742731	10.749718
169.250980	9.992990	9.257990	10.742010	10.749020
179.251677	9.992967	9.258710	10.741290	10.748323
189.252373	9.992944	9.259428	10.740571	10.747627
199.253067	9.992921	9.260146	10.739854	10.746932
209.253761	9.992898	9.260862	10.739137	10.746239
219.254453	9.992875	9.261578	10.738422	10.745547
229.255144	9.992852	9.262292	10.737708	10.744856
239.255834	9.992829	9.263005	10.736995	10.744166
249.256523	9.992806	9.263717	10.736283	10.743477
259.257211	9.992783	9.264428	10.735572	10.742789
269.257898	9.992759	9.265138	10.734862	10.742102
279.25858	9.992736	9.265847	10.734153	10.741417
.89.25926	9.992713	9.266555	10.733445	10.740732
299.25995	9.992689	9.267261	10.732739	10.740049
309.26063	9.992666	9.267967	10.732033	10.739361
	Sine.	Tang.	Secant.	Min.

79 Degrees.

Tangents and Secants.

10 Degrees.

Min.	Sine.	Tang.	Secant.	Min.
30	9.260633	9.992666	9.267967	10.732033
31	9.261314	9.992643	9.268671	10.731329
32	9.261994	9.992619	9.269375	10.730625
33	9.262673	9.992596	9.270077	10.729923
34	9.263351	9.992572	9.270779	10.729221
35	9.264027	9.992549	9.271479	10.728521
36	9.264703	9.992525	9.272178	10.727822
37	9.265377	9.992501	9.272876	10.727124
38	9.266051	9.992478	9.273573	10.726427
39	9.266723	9.992454	9.274269	10.725731
40	9.267394	9.992430	9.274964	10.725036
41	9.268065	9.992406	9.275658	10.724342
42	9.268734	9.992382	9.276351	10.723649
43	9.269402	9.992358	9.277043	10.722957
44	9.270069	9.992335	9.277734	10.722266
45	9.270735	9.992311	9.278424	10.721576
46	9.271400	9.992287	9.279113	10.720887
47	9.272063	9.992263	9.279801	10.720199
48	9.272726	9.992238	9.280488	10.719512
49	9.273388	9.992214	9.281174	10.718826
50	9.274049	9.992190	9.281858	10.718141
51	9.274708	9.992166	9.282542	10.717458
52	9.275367	9.992142	9.283225	10.716775
53	9.276024	9.992117	9.283907	10.716093
54	9.276681	9.992093	9.284588	10.715412
55	9.277337	9.992069	9.285268	10.714732
56	9.277991	9.992044	9.285947	10.714053
57	9.278644	9.992020	9.286624	10.713375
58	9.279297	9.991996	9.287301	10.712699
59	9.279948	9.991971	9.287977	10.712023
60	9.280599	9.991947	9.288652	10.711348
	Sine.	Tang.	Secant.	Min.

79 Degrees.

A Table of Artificial Sines,

II Degrees.

Min.	Sine.	Tang.	Secant.	Min.			
0	9.280599	9.991947	9.288652	10.711348	10.008053	10.719401	60
1	9.281248	9.991922	9.289236	10.710674	10.008078	10.718752	59
2	9.281897	9.991897	9.289999	10.710001	10.008103	10.718103	58
3	9.282544	9.991873	9.290671	10.709329	10.008127	10.717456	57
4	9.283190	9.991848	9.291342	10.708658	10.008152	10.716809	56
5	9.283836	9.991823	9.292013	10.707987	10.008177	10.716164	55
6	9.284480	9.991799	9.292682	10.707318	10.008201	10.715520	54
7	9.285124	9.991774	9.293350	10.706650	10.008226	10.714876	53
8	9.285766	9.991749	9.294017	10.705983	10.008251	10.714234	52
9	9.286408	9.991724	9.294684	10.705316	10.008276	10.713592	51
10	9.287048	9.991699	9.295349	10.704651	10.008301	10.712952	50
11	9.287687	9.991674	9.296013	10.703987	10.008326	10.712312	49
12	9.288326	9.991649	9.296677	10.703323	10.008351	10.711674	48
13	9.288964	9.991624	9.297339	10.702660	10.008376	10.711036	47
14	9.289600	9.991599	9.298001	10.701999	10.008401	10.710400	46
15	9.290236	9.991574	9.298662	10.701338	10.008426	10.709764	45
16	9.290870	9.991549	9.299322	10.700678	10.008451	10.709130	44
17	9.291504	9.991524	9.299980	10.700020	10.008476	10.708496	43
18	9.292137	9.991498	9.300638	10.699362	10.008502	10.707863	42
19	9.292768	9.991473	9.301295	10.698705	10.008527	10.707231	41
20	9.293399	9.991448	9.301951	10.698049	10.008552	10.706601	40
21	9.294029	9.991422	9.302607	10.697393	10.008577	10.705971	39
22	9.294658	9.991397	9.303261	10.696739	10.008603	10.705342	38
23	9.295286	9.991372	9.303914	10.696086	10.008628	10.704714	37
24	9.295913	9.991346	9.304567	10.695433	10.008654	10.704087	36
25	9.296539	9.991321	9.305218	10.694782	10.008679	10.703461	35
26	9.297164	9.991295	9.305869	10.694131	10.008705	10.702836	34
27	9.297788	9.991270	9.306519	10.693481	10.008730	10.702212	33
28	9.298412	9.991244	9.307167	10.692832	10.008756	10.701588	32
29	9.299034	9.991218	9.307815	10.692184	10.008782	10.700960	31
30	9.299655	9.991193	9.308463	10.691537	10.008807	10.700345	30
	Sine.	Tang.		Secant.		Min.	

39

Tangents and Secants.

11 Degrees.

Min.	Sine.	Tang.	Secant.	Min.	
30	9.2996559.991193	9.308463	10.691537	10.008807	10.700345
31	9.3002769.991167	9.309109	10.690891	10.008833	10.699724
32	9.3008959.991141	9.309754	10.690246	10.008859	10.699105
33	9.3015149.991115	9.310398	10.689601	10.008885	10.698486
34	9.3021329.991090	9.311042	10.688958	10.008910	10.697868
35	9.3027489.991064	9.311685	10.688315	10.008936	10.697251
36	9.3033649.991038	9.312327	10.687673	10.008962	10.696636
37	9.3039799.991012	9.312967	10.687032	10.008988	10.696021
38	9.3045939.990986	9.313608	10.686392	10.009014	10.695407
39	9.3052079.990960	9.314247	10.685753	10.009041	10.694793
40	9.3058199.990934	9.314885	10.685115	10.009066	10.694181
41	9.3064309.990908	9.315523	10.684477	10.009092	10.693570
42	9.3070419.990881	9.316159	10.683841	10.009118	10.692959
43	9.3076509.990855	9.316795	10.683205	10.009145	10.692350
44	9.3082599.990829	9.317430	10.682570	10.009171	10.691741
45	9.3088679.990803	9.318064	10.681936	10.009197	10.691133
46	9.3094749.990777	9.318697	10.681303	10.009223	10.690526
47	9.3100809.990750	9.319329	10.680670	10.009250	10.689920
48	9.3106859.990724	9.319961	10.680039	10.009276	10.689315
49	9.3112899.990697	9.320592	10.679408	10.009303	10.688711
50	9.3118939.990671	9.321222	10.678778	10.009329	10.688107
51	9.3124959.990644	9.321851	10.678149	10.009355	10.687505
52	9.3130979.990618	9.322479	10.677521	10.009382	10.686903
53	9.3136989.990591	9.323106	10.676894	10.009409	10.686302
54	9.3142979.990565	9.323733	10.676267	10.009435	10.685702
55	9.3148969.990538	9.324358	10.675642	10.009462	10.685103
56	9.3154959.990511	9.324983	10.675017	10.009488	10.684505
57	9.3160929.990485	9.325607	10.674393	10.009515	10.683908
58	9.3166889.990458	9.326230	10.673769	10.009542	10.683311
59	9.3172849.990431	9.326853	10.673147	10.009569	10.682716
60	9.3178799.990404	9.327474	10.672525	10.009596	10.682121
	Sine.	Tang.	Secant.		

78 Degrees.

A Table of Artificial Sines,

12 Degrees.

Min.	Sine.		Tang.		Secant.		Min.
0	9.317879	9.990464	9.327474	10.672525	10.009596	10.682121	60
1	9.318473	9.990377	9.328095	10.671905	10.009622	10.681527	59
2	9.319066	9.990351	9.328715	10.671285	10.009649	10.680934	58
3	9.319658	9.990324	9.329334	10.670665	10.009676	10.680342	57
4	9.320249	9.990297	9.329953	10.670047	10.009703	10.679750	56
5	9.320840	9.990270	9.330570	10.669943	10.009730	10.679160	55
6	9.321430	9.990243	9.331187	10.668813	10.009757	10.678570	54
7	9.322019	9.990215	9.331803	10.668197	10.009784	10.677981	53
8	9.322607	9.990188	9.332418	10.667582	10.009812	10.677393	52
9	9.323194	9.990161	9.333033	10.666967	10.009839	10.676806	51
10	9.323780	9.990134	9.333646	10.666354	10.009866	10.676220	50
11	9.324366	9.990107	9.334259	10.665741	10.009893	10.675634	49
12	9.324950	9.990079	9.334871	10.665129	10.009921	10.675049	48
13	9.325534	9.990052	9.335482	10.664518	10.009948	10.674466	47
14	9.326117	9.990025	9.336093	10.663907	10.009975	10.673883	46
15	9.326700	9.989997	9.336702	10.663297	10.010003	10.673300	45
16	9.327281	9.989970	9.337311	10.662689	10.010030	10.672719	44
17	9.327862	9.989942	9.337919	10.662081	10.010058	10.672138	43
18	9.328442	9.989915	9.338527	10.661473	10.010085	10.671558	42
19	9.329021	9.989887	9.339133	10.660867	10.010113	10.670979	41
20	9.329599	9.989860	9.339739	10.660261	10.010140	10.670401	40
21	9.330176	9.989832	9.340344	10.659656	10.010169	10.669824	39
22	9.330753	9.989804	9.340948	10.659052	10.010196	10.669247	38
23	9.331328	9.989777	9.341552	10.658448	10.010223	10.668671	37
24	9.331903	9.989749	9.342155	10.657845	10.010251	10.668096	36
25	9.332478	9.989721	9.342757	10.657243	10.010279	10.667522	35
26	9.333051	9.989693	9.343358	10.656642	10.010307	10.666949	34
27	9.333624	9.989665	9.343958	10.656042	10.010335	10.666376	33
28	9.334195	9.989637	9.344558	10.655442	10.010363	10.665804	32
29	9.334766	9.989609	9.345157	10.654843	10.010390	10.665233	31
30	9.335337	9.989581	9.345755	10.654245	10.010418	10.664663	30

Sine.

Tang.

Secant.

77 Degrees.

45

Tangents and Secants.

12 Degrees.

Min.	Sine.	Tang.	Secant.	Min.
30	9.335337	9.989581	9.345755	10.010418
31	9.335906	9.989553	9.346353	10.010446
32	9.336475	9.989525	9.346949	10.010475
33	9.337043	9.989497	9.347545	10.010503
34	9.337610	9.989469	9.348141	10.010531
35	9.338176	9.989441	9.348735	10.010559
36	9.338742	9.989413	9.349329	10.010587
37	9.339306	9.989384	9.349922	10.010615
38	9.339871	9.989356	9.350514	10.010644
39	9.340434	9.989328	9.351106	10.010672
40	9.340996	9.989299	9.351697	10.010700
41	9.341558	9.989271	9.352287	10.010729
42	9.342119	9.989243	9.352876	10.010757
43	9.342679	9.989214	9.353465	10.010786
44	9.343239	9.989186	9.354053	10.010814
45	9.343797	9.989157	9.354640	10.010843
46	9.344355	9.989128	9.355227	10.010872
47	9.344912	9.989100	9.355813	10.010900
48	9.345469	9.989071	9.356398	10.010929
49	9.346024	9.989042	9.356982	10.010958
50	9.346579	9.989014	9.357566	10.010986
51	9.347134	9.988985	9.358149	10.011015
52	9.347687	9.988956	9.358731	10.011044
53	9.348240	9.988927	9.359313	10.011073
54	9.348792	9.988898	9.359893	10.011102
55	9.349343	9.988869	9.360474	10.011131
56	9.349893	9.988840	9.361053	10.011160
57	9.350443	9.988811	9.361632	10.011189
58	9.350992	9.988782	9.362210	10.011218
59	9.351540	9.988753	9.362787	10.011247
60	9.352088	9.988724	9.363364	10.011276
	Sine.	Tang.	Secant.	Min.

77 Degrees.

A Table of Artificial Sines,

13 Degrees.

Min.	Sine.	Tang.	Secant.	Min.	
09.352088	9.988724	9.363364	10.636636	10.011276	10.64791260
19.352635	9.988685	9.363940	10.636060	10.011305	10.64736559
29.353181	9.988665	9.364515	10.635484	10.011334	10.64681958
39.353726	9.988636	9.365090	10.634910	10.011364	10.64627457
49.354271	9.988607	9.365664	10.634336	10.011393	10.64572956
59.354815	9.988578	9.366237	10.633763	10.011422	10.64518555
69.355358	9.988548	9.366810	10.633190	10.011452	10.64464254
79.355901	9.988519	9.367382	10.632618	10.011481	10.64409953
89.356443	9.988489	9.367953	10.632047	10.011511	10.64355752
99.356984	9.988460	9.368524	10.631476	10.011540	10.64301651
109.357524	9.988430	9.369094	10.630908	10.011570	10.64247650
119.358064	9.988401	9.369663	10.630337	10.011599	10.64193649
129.358603	9.988371	9.370231	10.629768	10.011629	10.64139748
139.359141	9.988341	9.370799	10.629201	10.011658	10.64085947
149.359678	9.988312	9.371367	10.628633	10.011688	10.64032146
159.360219	9.988282	9.371933	10.628067	10.011718	10.63978545
169.360751	9.988252	9.372499	10.627501	10.011748	10.63924844
179.361287	9.988222	9.373064	10.626935	10.011777	10.63871343
189.361822	9.988193	9.373629	10.626371	10.011807	10.63817842
199.362356	9.988163	9.374193	10.625807	10.011837	10.63764441
209.362889	9.988133	9.374756	10.625244	10.011867	10.63711140
219.363422	9.988103	9.375319	10.624684	10.011897	10.63657839
229.363954	9.988073	9.375881	10.624119	10.011927	10.63604638
239.364485	9.988043	9.376442	10.623558	10.011957	10.63551537
249.365016	9.988013	9.377003	10.622997	10.011987	10.63498436
259.365546	9.987983	9.377563	10.622437	10.012017	10.63445435
269.366075	9.987952	9.378122	10.621877	10.012047	10.63392534
279.366604	9.987922	9.378681	10.621319	10.012078	10.63339633
289.367131	9.987892	9.379239	10.620761	10.012108	10.63286832
299.367659	9.987862	9.379797	10.620203	10.012138	10.63234131
309.368185	9.987831	9.380354	10.619646	10.012168	10.63181530

Sine.

Tang.

Secant.

76 Degrees.

Tangents and Secants.

13 Degrees.

Min.	Sine.	Tang.	Secant.	Min.
30	9.368185	9.987831	9.380354	10.619646
31	9.368711	9.987801	9.380910	10.619090
32	9.369236	9.987771	9.381465	10.618534
33	9.369761	9.987740	9.382020	10.617979
34	9.370285	9.987710	9.382575	10.617425
35	9.370808	9.987679	9.383128	10.616871
36	9.371330	9.987649	9.383682	10.616318
37	9.371852	9.987618	9.384234	10.615766
38	9.372373	9.987588	9.384786	10.615214
39	9.372894	9.987557	9.385337	10.614663
40	9.373414	9.987526	9.385888	10.614112
41	9.373933	9.987495	9.386438	10.613562
42	9.374452	9.987465	9.386987	10.613013
43	9.374970	9.987434	9.387536	10.612464
44	9.375487	9.987403	9.388084	10.611916
45	9.376003	9.987372	9.388631	10.611369
46	9.376519	9.987341	9.389178	10.610822
47	9.377035	9.987310	9.389724	10.610276
48	9.377549	9.987279	9.390270	10.609730
49	9.378063	9.987248	9.390815	10.609185
50	9.378577	9.987217	9.391359	10.608640
51	9.379089	9.987186	9.391903	10.608097
52	9.379601	9.987155	9.392447	10.607553
53	9.380113	9.987124	9.392989	10.607011
54	9.380624	9.987092	9.393531	10.606449
55	9.381134	9.987061	9.394073	10.605927
56	9.381643	9.987030	9.394614	10.605386
57	9.382162	9.986998	9.395154	10.604846
58	9.382660	9.986967	9.395693	10.604306
59	9.383168	9.986936	9.396233	10.603767
60	9.383675	9.986904	9.396771	10.603225
	Sine.	Tang.	Secant.	Min.

76 Degrees.

A Table of Artificial Sines,

14 Degrees.

Mi.	Sine.	Tang.	Secant.		
0	9.383675	9.986904	9.396771	10.603229	10.616325
1	9.384181	9.986873	9.397309	10.602691	10.615818
2	9.384687	9.986841	9.397846	10.602154	10.615313
3	9.385192	9.986809	9.398383	10.601617	10.614808
4	9.385697	9.986778	9.398919	10.601081	10.614303
5	9.386201	9.986746	9.399455	10.600545	10.613799
6	9.386704	9.986714	9.399990	10.600010	10.613296
7	9.387207	9.986683	9.400524	10.599476	10.612793
8	9.387709	9.986651	9.401058	10.598942	10.612291
9	9.388210	9.986619	9.401591	10.598409	10.611790
10	9.388711	9.986587	9.402124	10.597876	10.611289
11	9.389211	9.986555	9.402656	10.597344	10.610789
12	9.389711	9.986523	9.403187	10.596813	10.610289
13	9.390210	9.986491	9.403718	10.596282	10.609790
14	9.390708	9.986459	9.404249	10.595751	10.609292
15	9.391206	9.986427	9.404778	10.595222	10.608794
16	9.391703	9.986395	9.405308	10.594692	10.608297
17	9.392199	9.986363	9.405836	10.594164	10.607801
18	9.392695	9.986331	9.406364	10.593636	10.607305
19	9.393190	9.986299	9.406892	10.593108	10.606809
20	9.393685	9.986266	9.407419	10.592581	10.606315
21	9.394179	9.986234	9.407945	10.592055	10.605821
22	9.394673	9.986202	9.408471	10.591529	10.605327
23	9.395166	9.986169	9.408996	10.591003	10.604834
24	9.395658	9.986137	9.409521	10.590479	10.604342
25	9.396150	9.986104	9.410045	10.589955	10.603850
26	9.396641	9.986072	9.410569	10.589431	10.603359
27	9.397131	9.986039	9.411092	10.588908	10.602868
28	9.397621	9.986007	9.411615	10.588385	10.602378
29	9.398111	9.985974	9.412137	10.587863	10.601889
30	9.398600	9.985942	9.412658	10.587342	10.601400
	Sine.	Tang.	Secant.		

75 Degrees.

M

Tangents and Secants.

14 Degrees.

M	Sine.		Tang.		Secant.	
30	9.398600	9.985942	9.412658	10.587342	10.014058	10.601400
31	9.399088	9.985909	9.413179	10.586821	10.014091	10.600912
32	9.399575	9.985876	9.413699	10.586301	10.014124	10.600435
33	9.400062	9.985843	9.414219	10.585781	10.014157	10.599937
34	9.400549	9.985811	9.414738	10.585262	10.014189	10.599451
35	9.401035	9.985778	9.415257	10.584743	10.014222	10.598965
36	9.401520	9.985745	9.415775	10.584225	10.014255	10.598480
37	9.402005	9.985712	9.416293	10.583707	10.014288	10.597995
38	9.402489	9.985679	9.416810	10.583190	10.014321	10.597511
39	9.402973	9.985646	9.417326	10.582673	10.014354	10.597028
40	9.403455	9.985613	9.417842	10.582157	10.014387	10.596545
41	9.403938	9.985580	9.418358	10.581642	10.014420	10.596062
42	9.404420	9.985547	9.418873	10.581127	10.014453	10.595580
43	9.404901	9.985513	9.419387	10.580613	10.014486	10.595099
44	9.405382	9.985480	9.419901	10.580099	10.014520	10.594618
45	9.405862	9.985447	9.420415	10.579585	10.014553	10.594138
46	9.406341	9.985414	9.420927	10.579072	10.014586	10.593659
47	9.406820	9.985380	9.421440	10.578560	10.014619	10.593180
48	9.407299	9.985347	9.421951	10.578048	10.014653	10.592701
49	9.407777	9.985314	9.422463	10.577537	10.014686	10.592223
50	9.408254	9.985280	9.422973	10.577026	10.014720	10.591746
51	9.408731	9.985247	9.423484	10.576516	10.014753	10.591269
52	9.409207	9.985213	9.423993	10.576006	10.014787	10.590793
53	9.409682	9.985180	9.424503	10.575497	10.014820	10.590318
54	9.410157	9.985146	9.425011	10.574989	10.014854	10.589842
55	9.410632	9.985112	9.425519	10.574481	10.014887	10.589368
56	9.411106	9.985079	9.426027	10.573973	10.014921	10.588894
57	9.411579	9.985045	9.426534	10.573466	10.014955	10.588423
58	9.412052	9.985011	9.427041	10.572959	10.014989	10.587948
59	9.412524	9.984978	9.427547	10.572453	10.015022	10.587475
60	9.412996	9.984944	9.428052	10.571947	10.015056	10.587004

Sine.

Tang.

Secant.

75 Degrees.

M

A Table of Artificial Sines,

15 Degrees.

Min.	Sine.		Tang.		Secant.	
0	9.412996	9.984944	9.428052	10.571947	10.015036	10.587004
1	9.413467	9.984916	9.428557	10.571442	10.015090	10.586533
2	9.413938	9.984876	9.429062	10.570938	10.015124	10.586062
3	9.414408	9.984842	9.429566	10.570434	10.015158	10.585592
4	9.414878	9.984808	9.430070	10.569930	10.015192	10.585122
5	9.415347	9.984774	9.430573	10.569427	10.015226	10.584653
6	9.415815	9.984740	9.431075	10.568925	10.015260	10.584185
7	9.416283	9.984706	9.431577	10.568423	10.015294	10.583717
8	9.416751	9.984672	9.432079	10.567921	10.015328	10.583249
9	9.417217	9.984637	9.432580	10.567420	10.015362	10.582783
10	9.417684	9.984603	9.433080	10.566920	10.015397	10.582316
11	9.418149	9.984569	9.433580	10.566412	10.015431	10.581850
12	9.418615	9.984535	9.434080	10.565920	10.015465	10.581385
13	9.419079	9.984500	9.434579	10.565421	10.015500	10.580920
14	9.419544	9.984466	9.435078	10.564920	10.015534	10.580456
15	9.420007	9.984432	9.435576	10.564424	10.015568	10.579993
16	9.420470	9.984397	9.436073	10.563927	10.015603	10.579530
17	9.420933	9.984363	9.436570	10.563430	10.015637	10.579067
18	9.421395	9.984328	9.437067	10.562933	10.015672	10.578603
19	9.421857	9.984293	9.437563	10.562437	10.015706	10.578143
20	9.422318	9.984259	9.438059	10.561941	10.015741	10.577682
21	9.422778	9.984224	9.438554	10.561446	10.015776	10.577222
22	9.423238	9.984189	9.439048	10.560951	10.015810	10.576762
23	9.423697	9.984155	9.439543	10.560457	10.015845	10.576303
24	9.424156	9.984120	9.440036	10.559964	10.015880	10.575844
25	9.424615	9.984085	9.440529	10.559470	10.015915	10.575385
26	9.425073	9.984050	9.441022	10.558978	10.015950	10.574927
27	9.425530	9.984015	9.441514	10.558485	10.015985	10.574470
28	9.425987	9.983980	9.442006	10.557994	10.016019	10.574013
29	9.426443	9.983945	9.442497	10.557502	10.016054	10.573557
30	9.426899	9.983910	9.442988	10.557012	10.016089	10.573101

Sine.

Tang.

Secant.

74 Degrees.

43

Tangents and Secants.

15 Degrees.

Min.	Sine.	Tang.	Secant.	Min.
30	9.426899	9.983910	9.442988	10.557012
31	9.427354	9.983475	9.443479	10.556521
32	9.427899	9.983840	9.443968	10.556031
33	9.428263	9.983805	9.444458	10.555542
34	9.428717	9.983770	9.444947	10.555053
35	9.429170	9.983735	9.445435	10.554565
36	9.429623	9.983700	9.445923	10.554077
37	9.430075	9.983664	9.446411	10.553589
38	9.430527	9.983629	9.446898	10.553102
39	9.430978	9.983594	9.447384	10.552616
40	9.431429	9.983558	9.447870	10.552130
41	9.431879	9.983523	9.448356	10.551644
42	9.432328	9.983487	9.448841	10.551159
43	9.432778	9.983452	9.449326	10.550674
44	9.433226	9.983416	9.449810	10.550190
45	9.433675	9.983380	9.450294	10.549706
46	9.434122	9.983345	9.450777	10.549223
47	9.434569	9.983309	9.451260	10.548740
48	9.435010	9.983273	9.451743	10.548257
49	9.435462	9.983238	9.452225	10.547775
50	9.435908	9.983202	9.452706	10.547294
51	9.436353	9.983166	9.453187	10.546813
52	9.436798	9.983130	9.453668	10.546332
53	9.437242	9.983094	9.454148	10.545852
54	9.437686	9.983058	9.454628	10.545372
55	9.438129	9.983022	9.455107	10.544893
56	9.438572	9.982986	9.455586	10.544414
57	9.439014	9.982950	9.456064	10.543936
58	9.439456	9.982914	9.456542	10.543458
59	9.439897	9.982878	9.457019	10.542981
60	9.440338	9.982842	9.457496	10.542504
	Sine.	Tang.	Secant.	Min.

74 Degrees.

M 2

A Table of Artificial Sines,

16 Degrees.

N.	Sine.	Tang.	Secant.	Min.
0	9.440338	9.982842	9.457496	10.542504 10.017158
1	9.440778	9.982805	9.457973	10.542027 10.017195
2	9.441218	9.982769	9.458449	10.541551 10.017231
3	9.441658	9.982733	9.458925	10.541075 10.017267
4	9.442096	9.982696	9.459400	10.540600 10.017304
5	9.442535	9.982660	9.459875	10.540125 10.017340
6	9.442973	9.982623	9.460349	10.539651 10.017376
7	9.443410	9.982587	9.460823	10.539177 10.017413
8	9.443847	9.982551	9.461297	10.538703 10.017449
9	9.444284	9.982514	9.461770	10.538230 10.017486
10	9.444720	9.982477	9.462242	10.537758 10.017523
11	9.445155	9.982441	9.462714	10.537285 10.017559
12	9.445590	9.982404	9.463186	10.536814 10.017596
13	9.446025	9.982367	9.463658	10.536342 10.017633
14	9.446459	9.982331	9.464128	10.535871 10.017669
15	9.446893	9.982294	9.464599	10.535401 10.017706
16	9.447326	9.982257	9.465069	10.534931 10.017743
17	9.447759	9.982220	9.465539	10.534461 10.017780
18	9.448191	9.982183	9.466008	10.533992 10.017817
19	9.448623	9.982146	9.466476	10.533523 10.017854
20	9.449054	9.982109	9.466945	10.533055 10.017891
21	9.449485	9.982072	9.467413	10.532587 10.017928
22	9.449915	9.982035	9.467880	10.532120 10.017965
23	9.450345	9.981998	9.468347	10.531653 10.018002
24	9.450775	9.981961	9.468814	10.531186 10.018039
25	9.451204	9.981924	9.469280	10.530720 10.018076
26	9.451632	9.981886	9.469746	10.530254 10.018114
27	9.452060	9.981849	9.470211	10.529789 10.018151
28	9.452488	9.981812	9.470676	10.529324 10.018188
29	9.452915	9.981774	9.471141	10.528859 10.018226
30	9.453342	9.981737	9.471605	10.528395 10.018263
	Sine.	Tang.	Secant.	Min.

73 Degrees.

Tangents and Secants.

16 Degrees.

Min.	Sine.	Tang.	Secant.	Min.
30	9.453342	9.981737	9.471605	10.528395
31	9.453768	9.981699	9.472068	10.527931
32	9.454194	9.981662	9.472532	10.527468
33	9.454619	9.981624	9.472995	10.527005
34	9.455044	9.981587	9.473457	10.526543
35	9.455469	9.981549	9.473919	10.526081
36	9.455893	9.981512	9.474381	10.525619
37	9.456316	9.981474	9.474842	10.525158
38	9.456739	9.981436	9.475303	10.524697
39	9.457162	9.981399	9.475763	10.524237
40	9.457584	9.981361	9.476223	10.523777
41	9.458006	9.981323	9.476683	10.523317
42	9.458427	9.981285	9.477142	10.522858
43	9.458848	9.981247	9.477601	10.522399
44	9.459268	9.981209	9.478059	10.521941
45	9.459688	9.981171	9.478517	10.521483
46	9.460108	9.981133	9.478975	10.521025
47	9.460527	9.981095	9.479432	10.520568
48	9.460946	9.981057	9.479889	10.520111
49	9.461364	9.981019	9.480345	10.519655
50	9.461782	9.980980	9.480801	10.519199
51	9.462199	9.980942	9.481257	10.518743
52	9.462661	9.980904	9.481712	10.518288
53	9.463032	9.980866	9.482167	10.517833
54	9.463448	9.980927	9.482621	10.517379
55	9.463864	9.980789	9.483075	10.516925
56	9.464279	9.980750	9.483529	10.516471
57	9.464694	9.980712	9.483982	10.516018
58	9.465108	9.980673	9.484435	10.515565
59	9.465552	9.980635	9.484887	10.515113
60	9.465935	9.980596	9.485339	10.514661
	Sine.	Tang.	Secant.	Min.

73 Degrees.

A Table of Artificial Sines,

17 Degrees.

Min.	Sine.	Tang.	Secant.	Min.			
0	9.465935	9.980596	9.485339	10.514661	10.019404	10.534065	60
1	9.466348	9.980558	9.485791	10.514209	10.019442	10.533652	59
2	9.466761	9.980519	9.486242	10.513758	10.019481	10.533239	58
3	9.467173	9.980480	9.486693	10.513307	10.019520	10.532827	57
4	9.46758	9.980441	9.487143	10.512857	10.019558	10.532415	56
5	9.467996	9.980403	9.487593	10.512407	10.019597	10.532004	55
6	9.468407	9.980364	9.488043	10.511957	10.019636	10.531593	54
7	9.468817	9.980325	9.488492	10.511508	10.019675	10.531183	53
8	9.469227	9.980286	9.488941	10.511059	10.019714	10.530773	52
9	9.469637	9.980247	9.489390	10.510610	10.019753	10.530363	51
10	9.470040	9.980208	9.489838	10.510162	10.019792	10.539954	50
11	9.470455	9.980169	9.490286	10.509714	10.019831	10.539545	49
12	9.470863	9.980130	9.490733	10.509267	10.019870	10.529137	48
13	9.471271	9.980091	9.491180	10.508820	10.019909	10.528729	47
14	9.471678	9.980052	9.491627	10.508373	10.019948	10.528231	46
15	9.472086	9.980012	9.492073	10.507927	10.019988	10.527914	45
16	9.472492	9.979973	9.492519	10.507481	10.020027	10.527508	44
17	9.472898	9.979934	9.492965	10.507035	10.020066	10.527101	43
18	9.473304	9.979895	9.493410	10.506590	10.020105	10.526696	42
19	9.473710	9.979855	9.493854	10.506145	10.020145	10.526290	41
20	9.474115	9.979816	9.494299	10.505701	10.020184	10.525885	40
21	9.474519	9.979776	9.494743	10.505257	10.020224	10.525481	39
22	9.474913	9.979737	9.495186	10.504813	10.020263	10.525077	38
23	9.475327	9.979697	9.495630	10.504370	10.020303	10.524673	37
24	9.475730	9.979659	9.496073	10.503927	10.020342	10.524270	36
25	9.476133	9.979618	9.496515	10.503485	10.020382	10.523867	35
26	9.476536	9.979578	9.496957	10.503043	10.020421	10.523464	34
27	9.476938	9.979539	9.497399	10.502601	10.020461	10.523062	33
28	9.477340	9.979499	9.497841	10.502159	10.020501	10.522660	32
29	9.477741	9.979459	9.498282	10.501718	10.020541	10.522259	31
30	9.478142	9.979419	9.498722	10.501278	10.020580	10.521858	30
	Sine.	Tang.	Secant.				

72 Degrees.

Tangents and Secants.

17. Degrees.

Min.	Sine.	Tang.	Secant.	Min.
30	9.478142	9.979419	9.498722	10.501278
31	9.478542	9.979180	9.499163	10.500837
32	9.478942	9.979340	9.499603	10.500397
33	9.479342	9.979300	9.500042	10.499958
34	9.479741	9.979260	9.500481	10.499519
35	9.480140	9.979220	9.500920	10.499080
36	9.480538	9.979180	9.501359	10.498641
37	9.480937	9.979140	9.501797	10.498203
38	9.481334	9.979100	9.502235	10.497765
39	9.481731	9.979059	9.502672	10.497328
40	9.482128	9.979019	9.503109	10.496891
41	9.482525	9.978979	9.503546	10.496454
42	9.482921	9.978939	9.503982	10.496018
43	9.483316	9.978898	9.504418	10.495582
44	9.483712	9.978858	9.504854	10.495146
45	9.484107	9.978817	9.505289	10.494711
46	9.484501	9.978777	9.505724	10.494276
47	9.484895	9.978736	9.506159	10.493841
48	9.485289	9.978696	9.506593	10.493407
49	9.485682	9.978655	9.507027	10.492973
50	9.486075	9.978615	9.507460	10.492540
51	9.486467	9.978574	9.507893	10.492107
52	9.486859	9.978533	9.508326	10.491674
53	9.487251	9.978493	9.508759	10.491241
54	9.487643	9.978452	9.509191	10.490809
55	9.488033	9.978411	9.509622	10.490378
56	9.488424	9.978370	9.510054	10.489946
57	9.488814	9.978329	9.510485	10.489515
58	9.489204	9.978288	9.510916	10.489084
59	9.489593	9.978247	9.511346	10.488654
60	9.489982	9.978206	9.511776	10.488224
	Sine.	Tang.	Secant.	Min.

● 72 Degrees.

A Table of Artificial Sines,

18 Degrees.

Min.	Sine.		Tang.		Secant.		Min.
0	9.489982	9.978206	9.511776	10.488224	10.021794	10.510018	50
1	9.490371	9.978165	9.512206	10.487794	10.021835	10.509629	55
2	9.490759	9.978142	9.512635	10.487365	10.021876	10.509241	58
3	9.491147	9.978083	9.513064	10.486396	10.021917	10.508853	57
4	9.491534	9.978042	9.513493	10.486507	10.021958	10.508465	56
5	9.491922	9.978001	9.513921	10.486079	10.021999	10.508070	55
6	9.492308	9.977959	9.514349	10.485651	10.022041	10.507692	54
7	9.492695	9.977918	9.514777	10.485223	10.022082	10.507305	53
8	9.493081	9.977877	9.515204	10.484796	10.022123	10.506919	52
9	9.493466	9.977835	9.515631	10.484369	10.022165	10.506534	51
10	9.493851	9.977794	9.516057	10.483942	10.022206	10.506149	50
11	9.494236	9.977752	9.516484	10.483516	10.022248	10.505764	49
12	9.494620	9.977711	9.516910	10.483090	10.022289	10.505379	48
13	9.495005	9.977669	9.517335	10.482665	10.022331	10.504995	47
14	9.495388	9.977628	9.517761	10.482239	10.022372	10.504612	46
15	9.495772	9.977586	9.518185	10.481814	10.022414	10.504228	45
16	9.496154	9.977544	9.518610	10.481390	10.022456	10.503845	44
17	9.496537	9.977503	9.519034	10.480966	10.022497	10.503463	43
18	9.496919	9.977461	9.519458	10.480542	10.022539	10.503081	42
19	9.497301	9.977419	9.519882	10.480118	10.022581	10.502699	41
20	9.497682	9.977377	9.520305	10.479695	10.022623	10.502318	40
21	9.498063	9.977335	9.520728	10.479272	10.022665	10.501936	39
22	9.498444	9.977293	9.521151	10.478849	10.022707	10.501556	38
23	9.498824	9.977251	9.521573	10.478427	10.022748	10.501175	37
24	9.499204	9.977209	9.521995	10.478005	10.022790	10.500795	36
25	9.499584	9.977167	9.522417	10.477583	10.022833	10.500416	35
26	9.499964	9.977125	9.522838	10.477162	10.022875	10.500037	34
27	9.500342	9.977083	9.523259	10.476741	10.022917	10.499658	33
28	9.500721	9.977041	9.523679	10.476320	10.022959	10.499279	32
29	9.501099	9.976999	9.524100	10.475900	10.023001	10.498901	31
30	9.501576	9.976957	9.524520	10.475480	10.023043	10.498524	30
	Sine.		Tang.		Secant.		

71 Degrees.

Min.

Tangents and Secants.

18 Degrees.

Min.	Sine.	Tang.	Secant.	Min.
30	9.5014769	9.9769579	9.524520	10.475480
31	9.5018549	9.9769149	9.524939	10.475060
32	9.5022319	9.9768729	9.525359	10.474641
33	9.5026079	9.9768309	9.525778	10.474222
34	9.5029849	9.9767879	9.526197	10.473803
35	9.5033609	9.9767459	9.526615	10.473385
36	9.5037359	9.9767029	9.527033	10.472967
37	9.5041109	9.9766609	9.527451	10.472549
38	9.5044859	9.9766179	9.527868	10.472132
39	9.5048609	9.9765749	9.528285	10.471715
40	9.5052349	9.9765329	9.528702	10.471298
41	9.5056089	9.9764899	9.529119	10.470881
42	9.5059819	9.9764469	9.529535	10.470465
43	9.5063549	9.9764049	9.529950	10.470049
44	9.5067279	9.9763619	9.530366	10.469634
45	9.5070999	9.9763189	9.530781	10.469219
46	9.5074719	9.9762759	9.531196	10.468804
47	9.5078429	9.9762329	9.531611	10.468389
48	9.5082149	9.9761899	9.532025	10.467975
49	9.5085859	9.9761469	9.532439	10.467561
50	9.5089569	9.9761039	9.532853	10.467147
51	9.5093269	9.9760609	9.533266	10.466734
52	9.5096969	9.9760179	9.533679	10.466321
53	9.5100659	9.9759749	9.534092	10.465908
54	9.5104349	9.9759309	9.534504	10.465496
55	9.5108039	9.9758879	9.534916	10.465084
56	9.5111729	9.9758449	9.535328	10.464672
57	9.5115409	9.9758009	9.535739	10.464261
58	9.5119079	9.9757579	9.536150	10.463849
59	9.5122759	9.9757139	9.536561	10.463439
60	9.5126429	9.9756709	9.536977	10.463028

Sine.

Tang.

Secant.

71 Degrees.

N

A Table of Artificial Sines,

19 Degrees.

Min.	Sine.	Tang.	Secant.	Min.
09.512642	9.975670	9.536972	10.463028	10.024330
19.513009	9.975626	9.537382	10.462618	10.024373
29.513375	9.975583	9.537792	10.462208	10.024417
39.513741	9.975539	9.538202	10.461798	10.024461
49.514107	9.975496	9.538611	10.461389	10.024504
59.514472	9.975452	9.539020	10.460980	10.024548
69.514837	9.975408	9.539429	10.460571	10.024592
79.515202	9.975365	9.539837	10.460163	10.024635
89.515566	9.975321	9.540245	10.459755	10.024679
99.515930	9.975277	9.540653	10.459347	10.024723
109.516294	9.975233	9.541061	10.458939	10.024767
119.516657	9.975189	9.541468	10.458532	10.024813
129.517020	9.975145	9.541875	10.458125	10.024855
139.517382	9.975101	9.542281	10.457719	10.024899
149.517745	9.975057	9.542688	10.457312	10.024943
159.518107	9.975013	9.543094	10.456906	10.024987
169.518468	9.974969	9.543499	10.456501	10.025037
179.518829	9.974925	9.543905	10.456095	10.025075
189.519190	9.974880	9.544310	10.455690	10.025120
199.519551	9.974836	9.544715	10.455285	10.025164
209.519911	9.974792	9.545119	10.454881	10.025208
219.520271	9.974747	9.545524	10.454476	10.025252
229.520631	9.974703	9.545928	10.454072	10.025297
239.520990	9.974659	9.546331	10.453669	10.025341
249.521349	9.974614	9.546735	10.453265	10.025386
259.521707	9.974570	9.547138	10.452862	10.025430
269.522066	9.974525	9.547540	10.452459	10.025475
279.522423	9.974481	9.547943	10.452057	10.025511
289.522781	9.974436	9.548345	10.451655	10.025564
299.523138	9.974391	9.548747	10.451253	10.025609
309.523495	9.974347	9.549149	10.450851	10.025653
	Sine.	Tang.	Secant.	Min.

70 Degrees.

Min.

Tangents and Secants.

19 Degrees.

Sine.		Tang.		Secant.		
30	9.523495	9.974347	9.549149	10.450851	10.025653	10.476505 30
31	9.523852	9.974302	9.549550	10.450450	10.025698	10.476148 29
32	9.524208	9.974257	9.549951	10.450049	10.025743	10.475792 28
33	9.524564	9.974212	9.550352	10.449648	10.025788	10.475436 27
34	9.524920	9.974167	9.550752	10.449248	10.025833	10.475080 26
35	9.525275	9.974122	9.551152	10.448847	10.025873	10.474725 25
36	9.525630	9.974077	9.551552	10.448448	10.025923	10.474370 24
37	9.525984	9.974032	9.551952	10.448048	10.025968	10.474016 23
38	9.526339	9.973987	9.552352	10.447649	10.026013	10.473661 22
39	9.526692	9.973942	9.552750	10.447250	10.026058	10.473307 21
40	9.527046	9.973897	9.553149	10.446851	10.026103	10.472954 20
41	9.527400	9.973852	9.553548	10.446452	10.026148	10.472600 19
42	9.527753	9.973807	9.553946	10.446054	10.026193	10.472247 18
43	9.528105	9.973761	9.554344	10.445656	10.026238	10.471895 17
44	9.528458	9.973716	9.554741	10.445258	10.026284	10.471542 16
45	9.528810	9.973671	9.555139	10.444861	10.026329	10.471190 15
46	9.529161	9.973625	9.555536	10.444464	10.026374	10.470839 14
47	9.529513	9.973580	9.555933	10.444067	10.026420	10.470487 13
48	9.529864	9.973535	9.556329	10.443671	10.026465	10.470136 12
49	9.530215	9.973489	9.556725	10.443274	10.026511	10.469785 11
50	9.530565	9.973443	9.557121	10.442879	10.026556	10.469435 10
51	9.530915	9.973398	9.557517	10.442483	10.026602	10.469085 9
52	9.531265	9.973352	9.557912	10.442086	10.026648	10.468735 8
53	9.531614	9.973307	9.558308	10.441692	10.026693	10.468386 7
54	9.531963	9.973261	9.558702	10.441297	10.026739	10.468036 6
55	9.532312	9.973215	9.559097	10.440903	10.026785	10.467688 5
56	9.532661	9.973169	9.559491	10.440509	10.026831	10.467339 4
57	9.533009	9.973124	9.559885	10.440115	10.026876	10.466991 3
58	9.533357	9.973078	9.560279	10.439721	10.026922	10.466643 2
59	9.533704	9.973032	9.560673	10.439327	10.026968	10.466296 1
60	9.534052	9.972986	9.561066	10.438934	10.027014	10.465948 0
	Sine.		Tang.		Secant.	

70 Degrees.

N 2

Min

A Table of Artificial Sines,

20 Degrees.

Min.	Sine.	Tang.		Secant.		Min.	
0	9.534052	9.972986	9.561066	10.438934	10.027014	10.465948	60
1	9.534399	9.972940	9.561459	10.438541	10.027060	10.465601	59
2	9.534745	9.972894	9.561851	10.438184	10.027106	10.465255	58
3	9.535091	9.972848	9.562244	10.437756	10.027152	10.464908	57
4	9.535437	9.972802	9.562636	10.437364	10.027198	10.464562	56
5	9.535783	9.972755	9.563028	10.436972	10.027245	10.464217	55
6	9.536129	9.972709	9.563419	10.436581	10.027291	10.463871	54
7	9.536474	9.972663	9.563811	10.436189	10.027337	10.463526	53
8	9.536818	9.972617	9.564202	10.435798	10.027383	10.463182	52
9	9.537163	9.972570	9.564592	10.435407	10.027430	10.462837	51
10	9.537507	9.972524	9.564983	10.435017	10.027476	10.462493	50
11	9.537851	9.972477	9.565373	10.434627	10.027522	10.462149	49
12	9.538194	9.972431	9.565763	10.434237	10.027569	10.461806	48
13	9.538537	9.972384	9.566153	10.433847	10.027615	10.461462	47
14	9.538880	9.972338	9.566542	10.433458	10.027662	10.461120	46
15	9.539223	9.972291	9.566932	10.433068	10.027709	10.460777	45
16	9.539565	9.972245	9.567320	10.432679	10.027755	10.460435	44
17	9.539907	9.972198	9.567709	10.432291	10.027802	10.460093	43
18	9.540249	9.972151	9.568097	10.431902	10.027849	10.459751	42
19	9.540590	9.972105	9.568486	10.431514	10.027895	10.459410	41
20	9.540931	9.972058	9.568873	10.431126	10.027942	10.459069	40
21	9.541272	9.972011	9.569261	10.430739	10.027989	10.458728	39
22	9.541613	9.971964	9.569648	10.430352	10.028036	10.458387	38
23	9.541953	9.971917	9.570035	10.429964	10.028083	10.458047	37
24	9.542293	9.971870	9.570422	10.429578	10.028130	10.457707	36
25	9.542632	9.971823	9.570809	10.429191	10.028177	10.457368	35
26	9.542971	9.971776	9.571195	10.428805	10.028224	10.457026	34
27	9.543310	9.971729	9.571581	10.428419	10.028271	10.456690	33
28	9.543649	9.971682	9.571967	10.428033	10.028318	10.456351	32
29	9.543987	9.971635	9.572352	10.427648	10.028365	10.456013	31
30	9.544325	9.971588	9.572738	10.427262	10.028412	10.455675	30

Sine.

Tang.

Secant.

69 Degrees.

48

Tangents and Secants.

20 Degrees.

Min.	Sine.		Tang.		Secant.		Min.
30	9.544325	9.971588	9.572738	10.427262	10.028412	10.455675	30
31	9.544663	9.971540	9.573123	10.426877	10.028460	10.455337	29
32	9.545000	9.971493	9.573507	10.426493	10.028507	10.454999	28
33	9.545338	9.971446	9.573892	10.426108	10.028554	10.454662	27
34	9.545674	9.971398	9.574276	10.425724	10.028602	10.454325	26
35	9.546011	9.971351	9.574660	10.425340	10.028649	10.453989	25
36	9.546347	9.971303	9.575044	10.424956	10.028696	10.453653	24
37	9.546683	9.971256	9.575429	10.424573	10.028744	10.453317	23
38	9.547019	9.971208	9.575810	10.424190	10.028792	10.452981	22
39	9.547354	9.971161	9.576193	10.423807	10.028839	10.452646	21
40	9.547689	9.971113	9.576576	10.423424	10.028887	10.452311	20
41	9.548024	9.971065	9.576958	10.423041	10.028934	10.451976	19
42	9.548358	9.971018	9.577341	10.422659	10.028982	10.451641	18
43	9.548693	9.970970	9.577723	10.422277	10.029030	10.451307	17
44	9.549027	9.970922	9.578104	10.421896	10.029078	10.450973	16
45	9.549360	9.970874	9.578486	10.421514	10.029126	10.450640	15
46	9.549693	9.970826	9.578867	10.421133	10.029173	10.450306	14
47	9.550026	9.970779	9.579248	10.420752	10.029221	10.449973	13
48	9.550359	9.970731	9.579629	10.420371	10.029269	10.449641	12
49	9.550692	9.970683	9.580009	10.419991	10.029317	10.449308	11
50	9.551024	9.970635	9.580389	10.419611	10.029365	10.448976	10
51	9.551356	9.970586	9.580769	10.419231	10.029413	10.448644	9
52	9.551687	9.970538	9.581149	10.418851	10.029462	10.448313	8
53	9.552018	9.970490	9.581528	10.418472	10.029510	10.447982	7
54	9.552349	9.970442	9.581907	10.418093	10.029558	10.447651	6
55	9.552680	9.970394	9.582286	10.417714	10.029606	10.447320	5
56	9.553010	9.970345	9.582665	10.417335	10.029655	10.446989	4
57	9.553341	9.970297	9.583043	10.416956	10.029702	10.446659	3
58	9.553670	9.970249	9.583422	10.416578	10.029751	10.446330	2
59	9.554000	9.970200	9.583800	10.416200	10.029800	10.446000	1
60	9.554329	9.970152	9.584177	10.415823	10.029848	10.445671	0
	Sine.		Tang.		Secant.		Min.

69 Degrees.

A Table of Artificial Sines,

21 Degrees.

M	Sine.	Tang.	Secant.	M			
0	9.554329	9.970152	9.584177	10.415823	10.029848	10.44567	50
1	9.554658	9.970103	9.584555	10.415445	10.029897	10.44534	59
2	9.554987	9.970055	9.584932	10.415068	10.029945	10.44501	8
3	9.555315	9.970006	9.585309	10.414691	10.039994	10.44468	1
4	9.555643	9.969957	9.585686	10.414314	10.030043	10.444357	56
5	9.555971	9.969909	9.586062	10.413938	10.030091	10.444014	55
6	9.556299	9.969860	9.586439	10.413561	10.030140	10.44370	4
7	9.556626	9.969811	9.586815	10.413185	10.030189	10.443374	3
8	9.556953	9.969762	9.587190	10.412810	10.030238	10.443047	52
9	9.557280	9.969714	9.587566	10.412434	10.030286	10.442720	11
10	9.557606	9.969665	9.587941	10.412059	10.030335	10.442394	50
11	9.557932	9.969616	9.588316	10.411684	10.030384	10.442068	49
12	9.558258	9.969567	9.588691	10.411309	10.030433	10.441742	48
13	9.558583	9.969518	9.589066	10.410933	10.030482	10.441416	47
14	9.558909	9.969469	9.589440	10.410560	10.030531	10.441092	46
15	9.559234	9.969420	9.589814	10.410186	10.030580	10.440761	45
16	9.559558	9.969370	9.590158	10.409812	10.030630	10.440441	44
17	9.559883	9.969321	9.590562	10.409438	10.030679	10.440117	43
18	9.560207	9.969272	9.590935	10.409065	10.030728	10.439793	42
19	9.560531	9.969223	9.591308	10.408692	10.03077	10.439465	41
20	9.560855	9.969173	9.591681	10.408319	10.030827	10.439145	40
21	9.561178	9.969124	9.592054	10.407946	10.030876	10.438822	39
22	9.561501	9.969075	9.592426	10.407574	10.030925	10.438499	38
23	9.561824	9.969025	9.592798	10.407201	10.030975	10.438176	37
24	9.562146	9.968976	9.593170	10.406829	10.031024	10.437854	36
25	9.562468	9.968926	9.593542	10.406458	10.031074	10.437531	35
26	9.562795	9.968877	9.593914	10.406086	10.031123	10.437210	34
27	9.563112	9.968827	9.594285	10.405715	10.031173	10.436888	33
28	9.563433	9.968777	9.594656	10.405344	10.031223	10.436566	32
29	9.563755	9.968728	9.595027	10.404973	10.031272	10.436245	31
30	9.564075	9.968678	9.595397	10.404602	10.031322	10.43592	30
	Sine.	Tang.	Secant.				

68 Degrees.

49.

Tangents and Secants.

21 Degrees.

No.	Sine.	Tang.	Secant.	Min.
30	9.564075	9.968678	9.595397	10.404602 10.031322 10.435925 30
31	9.564396	9.968628	9.595768	10.404232 10.031372 10.435605 29
32	9.564716	9.968578	9.596138	10.403862 10.031422 10.435284 28
33	9.565036	9.968528	9.596508	10.403492 10.031472 10.434964 27
34	9.565356	9.968478	9.596878	10.403122 10.031522 10.434644 26
35	9.565676	9.968429	9.597247	10.402753 10.031571 10.434324 25
36	9.565995	9.968379	9.597616	10.402384 10.031621 10.434005 24
37	9.566314	9.968328	9.597985	10.402015 10.031671 10.433686 23
38	9.566632	9.968278	9.598354	10.401646 10.031722 10.433368 22
39	9.566951	9.968228	9.598722	10.401277 10.031772 10.433049 21
40	9.567269	9.968178	9.599091	10.400909 10.031822 10.432731 20
41	9.567587	9.968128	9.599459	10.400541 10.031872 10.432413 19
42	9.567904	9.968078	9.599827	10.400173 10.031922 10.432096 18
43	9.568222	9.968027	9.600194	10.399806 10.031973 10.431778 17
44	9.568539	9.967977	9.600562	10.399438 10.032023 10.431461 16
45	9.568835	9.967927	9.600929	10.399071 10.032073 10.431144 15
46	9.569172	9.967876	9.601296	10.398704 10.032124 10.430828 14
47	9.569488	9.967826	9.601662	10.398337 10.032174 10.430512 13
48	9.569804	9.967775	9.602029	10.397971 10.032225 10.430196 12
49	9.570120	9.967725	9.602395	10.397605 10.032275 10.429880 11
50	9.570435	9.967674	9.602761	10.397239 10.032326 10.429564 10
51	9.570751	9.967623	9.603127	10.396873 10.032376 10.429249 9
52	9.571066	9.967573	9.603493	10.396507 10.032427 10.428934 8
53	9.571380	9.967522	9.603858	10.396142 10.032478 10.428620 7
54	9.571695	9.967471	9.604223	10.395777 10.032529 10.428305 6
55	9.572009	9.967420	9.604588	10.395412 10.032579 10.427991 5
56	9.572323	9.967370	9.604953	10.395047 10.032630 10.427677 4
57	9.572636	9.967319	9.605317	10.394683 10.032681 10.427364 3
58	9.572949	9.967268	9.605682	10.394318 10.032732 10.427050 2
59	9.573263	9.967217	9.606046	10.393954 10.032783 10.426737 1
60	9.573575	9.967166	9.606410	10.393590 10.032834 10.426425 0
	Sine.	Tang.	Secant.	Min.

68 Degrees.

A Table of Artificial Sines,

22 Degrees.

Min.	Sine.	Tang.	Secant.	
0	9.573575	9.967166	9.606410	10.393590
1	9.573888	9.967115	9.606773	10.393227
2	9.574200	9.967064	9.607137	10.392863
3	9.574512	9.967012	9.607500	10.392500
4	9.574824	9.966961	9.607863	10.392137
5	9.575136	9.966910	9.608225	10.391775
6	9.575447	9.966859	9.608588	10.391412
7	9.575758	9.966807	9.608950	10.391050
8	9.576068	9.966756	9.609312	10.390688
9	9.576379	9.966705	9.609674	10.390326
10	9.576689	9.966653	9.610036	10.389964
11	9.576999	9.966602	9.610397	10.389602
12	9.577309	9.966550	9.610759	10.389241
13	9.577618	9.966499	9.611120	10.388880
14	9.577927	9.966447	9.611480	10.388520
15	9.578236	9.966395	9.611841	10.388159
16	9.578545	9.966344	9.612001	10.387799
17	9.578853	9.966292	9.612561	10.387438
18	9.579162	9.966240	9.612921	10.387079
19	9.579469	9.966188	9.613281	10.386719
20	9.579777	9.966136	9.613641	10.386359
21	9.580084	9.966085	9.614000	10.366000
22	9.580392	9.966033	9.614359	10.385641
23	9.580699	9.965981	9.614718	10.385282
24	9.581005	9.965928	9.615077	10.384923
25	9.581312	9.965876	9.615435	10.384565
26	9.581618	9.965824	9.615793	10.384207
27	9.581924	9.965772	9.616151	10.383849
28	9.582229	9.965720	9.616509	10.383491
29	9.582534	9.965668	9.616867	10.383133
30	9.582840	9.965615	9.617224	10.382776
	Sine.	Tang.	Secant.	M

67 Degrees.

Tangents and Secants.

50

22 Degrees.

Min.	Sine.		Tang.		Secant.	
30	9.582840	9.965615	9.617224	10.382776	10.034385	10.41716030
31	9.583144	9.965563	9.617581	10.382418	10.034437	10.41685529
32	9.583449	9.965511	9.617938	10.382061	10.034489	10.41655128
33	9.583753	9.965458	9.618295	10.381705	10.034542	10.41624627
34	9.584058	9.965406	9.618652	10.381348	10.034594	10.41594226
35	9.584361	9.965353	9.619008	10.380992	10.034647	10.41563825
36	9.584665	9.965301	9.619364	10.380635	10.034699	10.41533524
37	9.584968	9.965248	9.619720	10.380279	10.034752	10.41503123
38	9.585272	9.965195	9.620076	10.379924	10.034805	10.41472822
39	9.585574	9.965143	9.620432	10.379568	10.034857	10.41442521
40	9.585877	9.965090	9.620787	10.379213	10.034910	10.41412320
41	9.586179	9.965037	9.621142	10.378858	10.034963	10.41382019
42	9.586482	9.964984	9.621497	10.378503	10.035016	10.41351818
43	9.586783	9.964931	9.621852	10.378148	10.035069	10.41321617
44	9.587085	9.964878	9.622207	10.377793	10.035121	10.41291516
45	9.587386	9.964826	9.622561	10.377439	10.035174	10.41261315
46	9.587688	9.964773	9.622915	10.377085	10.035227	10.41231214
47	9.587988	9.964719	9.623269	10.376731	10.035280	10.41201113
48	9.588289	9.964666	9.623623	10.376377	10.035333	10.41171112
49	9.588591	9.964613	9.623976	10.376024	10.035387	10.41141011
50	9.588890	9.964560	9.624330	10.375670	10.035440	10.41111010
51	9.589190	9.964507	9.624683	10.375317	10.035493	10.41081009
52	9.589489	9.964454	9.625036	10.374964	10.035546	10.41051108
53	9.589789	9.964400	9.625388	10.374612	10.035600	10.41021107
54	9.590088	9.964347	9.625741	10.374259	10.035659	10.40991206
55	9.590387	9.964294	9.626093	10.373907	10.035706	10.40961305
56	9.590686	9.964240	9.626445	10.373555	10.035760	10.40931404
57	9.590984	9.964187	9.626797	10.373203	10.035813	10.40901603
58	9.591282	9.964133	9.627149	10.372851	10.035867	10.40871802
59	9.591580	9.964080	9.627501	10.372499	10.035920	10.40842001
60	9.591878	9.964026	9.627852	10.372148	10.035974	10.40812200

Sine.

Tang.

Secant.

67 Degrees.

O

A Table of Artificial Sines,

23 Degrees.

Min.	Sine.	Tang.		Secant.	
0	9.591878	9.964026	9.627852	10.372148	10.408122 60
1	9.592175	9.963972	9.628203	10.371797	10.407824 59
2	9.592473	9.963919	9.628554	10.371448	10.407527 58
3	9.592770	9.963865	9.628905	10.371095	10.407230 57
4	9.593067	9.963811	9.629255	10.370745	10.406933 56
5	9.593363	9.963757	9.629606	10.370394	10.406637 55
6	9.593659	9.963704	9.629956	10.370044	10.406341 54
7	9.593955	9.963650	9.630306	10.369694	10.406044 53
8	9.594251	9.963596	9.630656	10.369344	10.405749 52
9	9.594547	9.963542	9.631005	10.368995	10.405453 51
10	9.594842	9.963488	9.631354	10.368645	10.405158 50
11	9.595137	9.963434	9.631704	10.368296	10.404863 49
12	9.595432	9.963379	9.632053	10.367947	10.404568 48
13	9.595727	9.963325	9.632401	10.367598	10.404273 47
14	9.596021	9.963271	9.632750	10.367250	10.403979 46
15	9.596315	9.963217	9.633098	10.366901	10.403685 45
16	9.596609	9.963162	9.633447	10.366553	10.403391 44
17	9.596903	9.963108	9.633795	10.366205	10.403097 43
18	9.597196	9.963054	9.634143	10.365857	10.402803 42
19	9.597490	9.962999	9.634490	10.365510	10.402510 41
20	9.597783	9.962945	9.634838	10.365162	10.402217 40
21	9.598075	9.962890	9.635185	10.364815	10.401925 39
22	9.598368	9.962836	9.635532	10.364468	10.401632 38
23	9.598660	9.962781	9.635879	10.364121	10.401340 37
24	9.598952	9.962727	9.636226	10.363774	10.401048 36
25	9.599244	9.962672	9.636572	10.363428	10.400756 35
26	9.599536	9.962617	9.636918	10.363081	10.400464 34
27	9.599827	9.962562	9.637265	10.362735	10.400173 33
28	9.600118	9.962508	9.637611	10.362389	10.397492 32
29	9.600409	9.962453	9.637956	10.362044	10.395471 31
30	9.600700	9.962398	9.638302	10.361698	10.393000 30
	Sine.		Tang.		Secant.

66 Degrees.

Tangents and Secants.

23 Degrees.

Min.	Sine.		Tang.		Secant.	
30	9.600700	9.962398	9.638302	10.361698	10.037602	10.399300
31	9.600990	9.962343	9.638647	10.361353	10.037657	10.399010
32	9.601280	9.962288	9.638992	10.361007	10.037712	10.398720
33	9.601570	9.962233	9.639337	10.360662	10.037767	10.398430
34	9.601860	9.962178	9.639682	10.360318	10.037822	10.398140
35	9.602149	9.962123	9.640027	10.359973	10.037877	10.397850
36	9.602439	9.962067	9.640371	10.359629	10.037933	10.397561
37	9.602728	9.962012	9.640716	10.359284	10.037988	10.397272
38	9.603017	9.961957	9.641050	10.358940	10.038043	10.396983
39	9.603305	9.961902	9.641404	10.358596	10.038098	10.395695
40	9.603594	9.961846	9.641747	10.358253	10.038154	10.396406
41	9.603882	9.961791	9.642091	10.357909	10.038209	10.396118
42	9.604170	9.961735	9.642434	10.357566	10.038264	10.395830
43	9.604457	9.961680	9.642777	10.357223	10.038320	10.395543
44	9.604745	9.961624	9.643120	10.356880	10.038375	10.395255
45	9.605032	9.961569	9.643463	10.356537	10.038431	10.394968
46	9.605319	9.961513	9.643806	10.356194	10.038487	10.394681
47	9.605605	9.961458	9.644148	10.355852	10.038542	10.394394
48	9.605892	9.961402	9.644490	10.355510	10.038598	10.394108
49	9.606179	9.961346	9.644832	10.355168	10.038654	10.393821
50	9.606465	9.961290	9.645174	10.354816	10.038710	10.393535
51	9.606751	9.961235	9.645516	10.354484	10.038765	10.393249
52	9.607036	9.961179	9.645857	10.354142	10.038821	10.392964
53	9.607322	9.961123	9.646199	10.353801	10.038877	10.392678
54	9.607607	9.961067	9.646540	10.353460	10.038933	10.392393
55	9.607892	9.961011	9.646881	10.353119	10.038989	10.392108
56	9.608176	9.960955	9.647222	10.352778	10.039045	10.391823
57	9.608451	9.960899	9.647562	10.352438	10.039101	10.391531
58	9.608745	9.960843	9.647903	10.352097	10.039157	10.391255
59	9.609029	9.960786	9.64843	10.351757	10.039214	10.390971
60	9.609313	9.960730	9.64883	10.351417	10.039270	10.390687

| Sine. |

Tang.

Secant.

66 Degrees.

A Table of Artificial Sines,

24 Degrees.

Min.	Sine.	Tang.	Secant.	Min.
0	9.609313	9.960730	9.648583	10.390687
1	9.609597	9.960674	9.648923	10.390403
2	9.609880	9.960618	9.649263	10.390120
3	9.610163	9.960561	9.649602	10.389836
4	9.610446	9.960505	9.649942	10.389553
5	9.610729	9.960448	9.650281	10.389271
6	9.611012	9.960392	9.650620	10.388988
7	9.611294	9.960335	9.650959	10.388706
8	9.611576	9.960279	9.651297	10.388424
9	9.611858	9.960222	9.651636	10.388142
10	9.612140	9.960169	9.651974	10.387860
11	9.612421	9.960109	9.652312	10.387579
12	9.612702	9.960052	9.652650	10.387298
13	9.612983	9.959995	9.652988	10.387017
14	9.613264	9.959938	9.653326	10.386736
15	9.613545	9.959881	9.653663	10.386455
16	9.613825	9.959825	9.654000	10.386175
17	9.614105	9.959768	9.654337	10.385895
18	9.614385	9.959711	9.654674	10.385615
19	9.614665	9.959653	9.655011	10.385335
20	9.614944	9.959596	9.655348	10.385056
21	9.615223	9.959539	9.655684	10.384777
22	9.615502	9.959482	9.656020	10.384498
23	9.615781	9.959425	9.656356	10.384219
24	9.616060	9.959367	9.656692	10.383940
25	9.616338	9.959310	9.657028	10.383662
26	9.616616	9.959253	9.657364	10.383384
27	9.616894	9.959195	9.657699	10.383106
28	9.617172	9.959138	9.658034	10.382828
29	9.617450	9.959080	9.658369	10.382550
30	9.617727	9.959023	9.658704	10.382273
	Sine.	Tang.	Secant.	Min.

65 Degrees.

Tangents and Secants.

24 Degrees.

Min.	Sine.	Tang.	Secant.	
30	9.617727	9.959023	9.658704	10.040977
31	9.618004	9.958965	9.659039	10.040961
32	9.618181	9.958908	9.659373	10.040627
33	9.618558	9.958850	9.659708	10.040292
34	9.618834	9.958792	9.660042	10.041208
35	9.619110	9.958734	9.660376	10.041265
36	9.619386	9.958677	9.660710	10.039290
37	9.619662	9.958619	9.661043	10.038956
38	9.619938	9.958561	9.661377	10.038623
39	9.620213	9.958503	9.661710	10.038290
40	9.620488	9.958445	9.662043	10.037957
41	9.620763	9.958387	9.662376	10.037623
42	9.621038	9.958329	9.662709	10.037291
43	9.621313	9.958271	9.663042	10.036958
44	9.621587	9.958212	9.663374	10.036625
45	9.621861	9.958154	9.663707	10.036293
46	9.622135	9.958096	9.664039	10.035961
47	9.622409	9.958038	9.664371	10.035629
48	9.622682	9.957979	9.664703	10.035297
49	9.622956	9.957921	9.665035	10.034965
50	9.623229	9.957863	9.665366	10.034634
51	9.623502	9.957804	9.665697	10.034302
52	9.623774	9.957746	9.666029	10.033971
53	9.624047	9.957687	9.666360	10.033640
54	9.624319	9.957628	9.666691	10.033309
55	9.624591	9.957570	9.667021	10.032979
56	9.624863	9.957511	9.667352	10.032648
57	9.625135	9.957452	9.667682	10.032318
58	9.625406	9.957393	9.668013	10.031987
59	9.625677	9.957335	9.668343	10.031657
60	9.625948	9.957276	9.668672	10.031327
	Sine.	Tang.	Secant.	

65 Degrees.

Min.

A Table of Artificial Sines,

25 Degrees.

Min.	Sine.		Tang.		Secant.		
0	9.625948	9.9572769	9.668672	10.331327	10.042724	10.374052	60
1	9.626219	9.9572179	9.669002	10.330998	10.042783	10.373781	59
2	9.626490	9.9571589	9.669332	10.330668	10.042842	10.373510	58
3	9.626760	9.9570999	9.669661	10.330339	10.042901	10.373240	57
4	9.627030	9.9570409	9.669991	10.330009	10.042960	10.372970	56
5	9.627300	9.9569819	9.670320	10.329680	10.043019	10.372700	55
6	9.627570	9.9569219	9.670649	10.329351	10.043078	10.372430	54
7	9.627840	9.9568629	9.670977	10.329023	10.043138	10.372160	53
8	9.628109	9.9568039	9.671306	10.328694	10.043197	10.371891	52
9	9.628378	9.9567449	9.671634	10.328365	10.043256	10.371622	51
10	9.628647	9.9566849	9.671963	10.328037	10.043316	10.371353	50
11	9.628916	9.9566259	9.672291	10.327709	10.043375	10.371084	49
12	9.629184	9.9565669	9.672619	10.327381	10.043434	10.370815	48
13	9.629453	9.9565069	9.672947	10.327053	10.043494	10.370547	47
14	9.629721	9.9564479	9.673274	10.326725	10.043553	10.370279	46
15	9.62998	9.9563879	9.673602	10.326398	10.043613	10.370011	45
16	9.630251	9.9563279	9.673929	10.326071	10.043673	10.369743	44
17	9.630524	9.9562689	9.674257	10.325743	10.043732	10.369476	43
18	9.630792	9.9562089	9.674584	10.325416	10.043792	10.369208	42
19	9.631069	9.9561489	9.674910	10.325089	10.043852	10.368941	41
20	9.631326	9.9560899	9.675237	10.324763	10.043911	10.368674	40
21	9.63159	9.9560299	9.675564	10.324436	10.043971	10.368407	39
22	9.631859	9.9559699	9.675890	10.324110	10.044031	10.368141	38
23	9.632125	9.9559099	9.676216	10.323783	10.044091	10.367874	37
24	9.632392	9.9558499	9.676543	10.323457	10.044151	10.367608	36
25	9.632658	9.9557899	9.676859	10.323131	10.044211	10.367342	35
26	9.6329239	9.9557299	9.677194	10.322806	10.044271	10.367077	34
27	9.633189	9.9556699	9.677520	10.322480	10.044331	10.366811	33
28	9.6334549	9.9556099	9.677846	10.322154	10.0434391	10.366546	32
29	9.633719	9.9555489	9.678171	10.321829	10.044451	10.366281	31
30	9.633984	9.9554889	9.678496	10.321504	10.044512	10.366016	30
	Sine.		Tang.		Secant.		

64 Degrees.

53.

Tangents and Secants.

25 Degrees.

M	Sine.	Tang.	Secant.	Min.
30	9.633984	9.955488	9.678496	10.321504
31	9.634249	9.955428	9.678821	10.321179
32	9.634514	9.955368	9.679146	10.320854
33	9.634778	9.955307	9.679471	10.320529
34	9.635042	9.955247	9.679795	10.320205
35	9.635306	9.955186	9.680120	10.319880
36	9.635670	9.955126	9.680444	10.319556
37	9.635833	9.955065	9.680768	10.319232
38	9.636097	9.955005	9.681092	10.318908
39	9.636360	9.954944	9.681416	10.318584
40	9.636623	9.954883	9.681740	10.318260
41	9.636886	9.954823	9.682063	10.317937
42	9.637148	9.954762	9.682386	10.317613
43	9.637411	9.954701	9.682710	10.317290
44	9.637673	9.954640	9.683033	10.316967
45	9.637935	9.954579	9.683356	10.316644
46	9.638197	9.954518	9.683678	10.316321
47	9.638458	9.954457	9.684001	10.315999
48	9.638720	9.954396	9.684324	10.315676
49	9.638981	9.954335	9.684646	10.315354
50	9.639242	9.954274	9.684968	10.315032
51	9.639503	9.954213	9.685290	10.314710
52	9.639764	9.954152	9.685612	10.314388
53	9.640024	9.954090	9.685934	10.314066
54	9.640284	9.954029	9.686255	10.313745
55	9.640544	9.953968	9.686577	10.313423
56	9.640804	9.953906	9.686898	10.313102
57	9.641064	9.953845	9.687219	10.312781
58	9.641323	9.953783	9.687540	10.312460
59	9.641583	9.953721	9.687861	10.312139
60	9.641842	9.953660	9.688182	10.311818
	Sine.	Tang.	Secant.	Min.

64 Degrees.

A Table of Artificial Sines,

26 Degrees.

Min.	Sine.	Tang.	Secant.	Min.
09.641842	9.953660	9.688182	10.311818	10.35815860
19.642104	9.953598	9.688502	10.311498	10.35789959
29.642360	9.953537	9.688823	10.311177	10.35764058
39.642618	9.953475	9.689143	10.310857	10.35738257
49.642876	9.953413	9.689463	10.310537	10.35712356
59.643135	9.953351	9.689783	10.310217	10.35686555
69.643393	9.953290	9.690103	10.309897	10.35660754
79.643650	9.953228	9.690423	10.309575	10.35635053
89.643908	9.953166	9.690742	10.309258	10.35609252
99.644165	9.953104	9.691062	10.308938	10.35583551
109.644423	9.953042	9.691381	10.308619	10.35557750
119.644680	9.952980	9.691700	10.308300	10.35532049
129.644936	9.952917	9.692019	10.307981	10.35506348
139.645193	9.952855	9.692338	10.307662	10.35480747
149.645450	9.952793	9.692656	10.307343	10.35455046
159.645706	9.952731	9.692975	10.307025	10.35429445
169.645962	9.952668	9.693293	10.306707	10.35403844
179.646218	9.952606	9.693612	10.306388	10.35378243
189.646473	9.952544	9.693930	10.306070	10.35352642
199.646729	9.952481	9.694248	10.305752	10.35327141
209.646984	9.952419	9.694566	10.305434	10.35301640
219.647239	9.952356	9.694883	10.305117	10.35276039
229.647494	9.952294	9.695201	10.304799	10.35250538
239.647749	9.952231	9.695518	10.304482	10.35225137
249.648004	9.952168	9.695835	10.304164	10.35199636
259.648258	9.952105	9.696153	10.303847	10.35174235
269.648512	9.952043	9.696470	10.303530	10.35148834
279.648766	9.951980	9.696786	10.303213	10.35123333
289.649020	9.951917	9.697103	10.302897	10.35098032
299.649274	9.951854	9.697420	10.302580	10.35072631
309.649527	9.951791	9.697736	10.302264	10.35047330
	Sine.	Tang.	Secant.	Min.

63 Degrees.

Tangents and Secants.

54

26 Degrees.

Min.	Sine.	Tang.	Secant.	Min.
30	9.649527	9.951791	9.697736	10.302264
31	9.649781	9.951728	9.698053	10.301947
32	9.650034	9.951665	9.698369	10.301631
33	9.650287	9.951602	9.698685	10.301315
34	9.650539	9.951539	9.699001	10.300999
35	9.650792	9.951476	9.699316	10.300684
36	9.651044	9.951412	9.699632	10.300368
37	9.651297	9.951349	9.699947	10.300053
38	9.651549	9.951286	9.700263	10.299737
39	9.651800	9.951222	9.700578	10.299422
40	9.652052	9.951159	9.700893	10.299107
41	9.652303	9.951096	9.701208	10.298792
42	9.652555	9.951032	9.701523	10.298477
43	9.652806	9.950968	9.701837	10.298163
44	9.653057	9.950905	9.702152	10.297848
45	9.653307	9.950841	9.702466	10.297534
46	9.653558	9.950777	9.702780	10.297219
47	9.653808	9.950714	9.703095	10.296905
48	9.654059	9.950650	9.703409	10.296591
49	9.654309	9.950486	9.703722	10.296277
50	9.654558	9.950522	9.704036	10.295964
51	9.654808	9.950458	9.704350	10.295650
52	9.655057	9.950394	9.704663	10.295337
53	9.655307	9.950330	9.704976	10.295023
54	9.655556	9.950266	9.705290	10.294710
55	9.655805	9.950202	9.705603	10.294397
56	9.656054	9.950138	9.705916	10.294084
57	9.656302	9.950074	9.706228	10.293772
58	9.656550	9.950009	9.706541	10.293459
59	9.656799	9.959945	9.706853	10.293146
60	9.657042	9.959881	9.707166	10.292834
	Sine.	Tang.	Secant.	Min.

63 Degrees.

A Table of Artificial Sines,

27 Degrees.

Min.	Sine.	Tang.	Secant.		
09.657047	9.949881	9.707166	10.292834	10.050119	10.342953
19.657295	9.949816	9.707478	10.292522	10.050183	10.342705
29.657542	9.949752	9.707790	10.292210	10.050248	10.342458
39.657790	9.949688	9.708102	10.291898	10.050312	10.342210
49.658037	9.949623	9.708414	10.291586	10.050377	10.341963
59.658284	9.949558	9.708726	10.291274	10.050441	10.341716
69.658531	9.949494	9.709037	10.290963	10.050506	10.341469
79.658778	9.949429	9.709349	10.290651	10.050571	10.341222
89.659025	9.949364	9.709660	10.290340	10.050635	10.340975
99.659271	9.949300	9.709971	10.290029	10.050700	10.340729
109.659517	9.949235	9.710282	10.289718	10.050765	10.340483
119.659763	9.949170	9.710593	10.289407	10.050830	10.340237
129.660009	9.949105	9.710904	10.289096	10.050895	10.339991
139.660255	9.949040	9.711215	10.288785	10.050960	10.339745
149.660500	9.948975	9.711525	10.288475	10.051025	10.339499
159.660746	9.948910	9.711836	10.288164	10.051090	10.339254
169.660991	9.948845	9.712146	10.287854	10.051155	10.339009
179.661236	9.948780	9.712456	10.287544	10.051220	10.338764
189.661481	9.948715	9.712766	10.287234	10.051285	10.338519
199.661726	9.948649	9.713076	10.286924	10.051350	10.338274
209.661970	9.948584	9.713386	10.286614	10.051416	10.338030
219.662214	9.948519	9.713696	10.286304	10.051481	10.337785
229.662459	9.948453	9.714005	10.285995	10.051546	10.337541
239.662703	9.948388	9.714314	10.285685	10.051612	10.337297
249.662946	9.948323	9.714624	10.285376	10.051677	10.337054
259.663190	9.948257	9.714933	10.285067	10.051743	10.336810
269.663433	9.948192	9.715242	10.284758	10.051808	10.336566
279.663677	9.948126	9.715551	10.284449	10.051874	10.336323
289.663920	9.948060	9.715859	10.284140	10.051940	10.336080
299.664163	9.947995	9.716168	10.283832	10.052005	10.335837
309.664406	9.947929	9.716477	10.283523	10.052071	10.335594
	Sine.	Tang.	Secant.		Min.

62 Degrees.

Tangents and Secants.

28 Degrees.

Min.	Sine.		Tang.		Secant.		Sine.	
	Min.	Sec.	Min.	Sec.	Min.	Sec.	Min.	Sec.
30	9.678663	9.943898	9.734764	10.265236	10.056101	10.321337	30	
31	9.678895	9.943830	9.735066	10.264934	10.056170	10.321104	29	
32	9.679128	9.943761	9.735367	10.264633	10.056239	10.320872	28	
33	9.679360	9.943692	9.735668	10.264332	10.056307	10.320640	27	
34	9.679592	9.943624	9.735968	10.264031	10.056376	10.320408	26	
35	9.679824	9.943555	9.736269	10.263731	10.056445	10.320176	25	
36	9.680056	9.943486	9.736570	10.263430	10.056514	10.319944	24	
37	9.680288	9.943417	9.736870	10.263129	10.056583	10.319712	23	
38	9.680519	9.943348	9.737171	10.262829	10.056652	10.319480	23	
39	9.680750	9.943279	9.737471	10.262529	10.056721	10.319238	21	
40	9.680982	9.943210	9.737771	10.262229	10.056790	10.319088	20	
41	9.681213	9.943141	9.738071	10.261929	10.056859	10.318857	19	
42	9.681443	9.943072	9.738371	10.261629	10.056928	10.318537	18	
43	9.681674	9.943003	9.738671	10.261329	10.056997	10.318326	17	
44	9.681905	9.942933	9.738971	10.261029	10.057066	10.318095	16	
45	9.682135	9.942864	9.739271	10.260729	10.057136	10.317865	15	
46	9.682365	9.942795	9.739570	10.260430	10.057205	10.317634	14	
47	9.682595	9.942725	9.739870	10.260130	10.057274	10.317403	13	
48	9.682825	9.942656	9.740169	10.259833	10.057344	10.317175	12	
49	9.683055	9.942587	9.740468	10.259532	10.057413	10.316949	11	
50	9.683284	9.942517	9.740767	10.259233	10.057483	10.316726	10	
51	9.683514	9.942448	9.741066	10.258934	10.057552	10.316486	9	
52	9.683743	9.942378	9.741365	10.258635	10.057622	10.316237	8	
53	9.683972	9.942308	9.741664	10.258336	10.057692	10.316028	7	
54	9.684201	9.942239	9.741962	10.258038	10.057761	10.315799	6	
55	9.684430	9.942169	9.742261	10.257739	10.057831	10.315576	5	
56	9.684658	9.942099	9.742559	10.257441	10.057901	10.315342	4	
57	9.684887	9.942029	9.742858	10.257142	10.057971	10.315113	3	
58	9.685115	9.941959	9.743156	10.256844	10.058043	10.314885	2	
59	9.685343	9.941889	9.743454	10.256546	10.058113	10.314657	1	
60	9.685571	9.941819	9.743752	10.256248	10.058181	10.314429	0	

Sine.

Tang.

Secant.

61 Degrees.

A Table of Artificial Sines,

29 Degrees:

Min.	Sine.	Tang.	Secant.	Min.	
0	9.685571	9.941819	9.743752	10.256248	10.314429
1	9.685799	9.941749	9.744050	10.255950	10.314201
2	9.686027	9.941679	9.744348	10.255652	10.313973
3	9.686254	9.941609	9.744645	10.255355	10.313746
4	9.686482	9.941539	9.744943	10.255057	10.313518
5	9.686709	9.941468	9.745240	10.254760	10.313291
6	9.686936	9.941398	9.745538	10.254462	10.313064
7	9.687163	9.941328	9.745835	10.254165	10.312837
8	9.687389	9.941257	9.746132	10.253868	10.312610
9	9.687616	9.941187	9.746429	10.253571	10.312384
10	9.687842	9.941117	9.746726	10.253274	10.312157
11	9.688069	9.941046	9.747023	10.252977	10.311931
12	9.688295	9.940975	9.747319	10.252681	10.311705
13	9.688521	9.940905	9.747616	10.252384	10.311479
14	9.688747	9.940834	9.747912	10.252087	10.311253
15	9.688972	9.940763	9.748209	10.251791	10.311028
16	9.689198	9.940693	9.748505	10.251495	10.310802
17	9.689423	9.940622	9.748801	10.251199	10.310577
18	9.689648	9.940551	9.749097	10.250903	10.310352
19	9.689873	9.940480	9.749393	10.250607	10.310127
20	9.690098	9.940409	9.749689	10.250311	10.309902
21	9.690323	9.940338	9.749985	10.250015	10.309677
22	9.690548	9.940267	9.750281	10.249719	10.309452
23	9.690772	9.940196	9.750576	10.249424	10.309228
24	9.690996	9.940125	9.750872	10.249128	10.309004
25	9.691220	9.940053	9.751167	10.248833	10.308779
26	9.691444	9.939982	9.751462	10.248538	10.308555
27	9.691668	9.939911	9.751757	10.248243	10.308332
28	9.691892	9.939840	9.752052	10.247948	10.308108
29	9.692115	9.939768	9.752347	10.247653	10.307884
30	9.692339	9.939697	9.752642	10.247358	10.307661

Sine.

Tang.

Secant.

60 Degrees.

52

Tangents and Secants.

30 Degrees.

Min.	Sine.		Tang.		Secant.	
30	9.7054699	9.935320	9.770148	10.229851	10.064680	10.294531
31	9.7056839	9.9352469	9.770437	10.229563	10.064754	10.294317
32	9.7058979	9.9351719	9.770726	10.229274	10.064828	10.294102
33	9.7061129	9.9350979	9.771015	10.228985	10.064903	10.293888
34	9.7063269	9.9350229	9.771303	10.228697	10.064978	10.293674
35	9.7065399	9.9349489	9.771592	10.228408	10.065052	10.293463
36	9.7067539	9.9348739	9.771880	10.228120	10.065127	10.293247
37	9.7069679	9.9347989	9.772168	10.227832	10.065202	10.293033
38	9.7071809	9.9347239	9.772457	10.227543	10.065276	10.292820
39	9.7073939	9.9346499	9.772745	10.227255	10.065351	10.292607
40	9.7076069	9.9345749	9.773033	10.226967	10.065426	10.292393
41	9.7078199	9.9344999	9.773321	10.226679	10.065501	10.292181
42	9.7080329	9.9344249	9.773608	10.226392	10.065576	10.291968
43	9.7082459	9.9343499	9.773896	10.226104	10.065651	10.291755
44	9.7884579	9.9342749	9.774184	10.225816	10.065726	10.291542
45	9.7086709	9.9341999	9.774471	10.225529	10.065801	10.291330
46	9.7088819	9.9341239	9.774759	10.225241	10.065877	10.291118
47	9.7090949	9.9340489	9.775046	10.224954	10.065952	10.290906
48	9.7093069	9.9339739	9.775333	10.224667	10.066027	10.290694
49	9.7095189	9.9338989	9.775621	10.224379	10.066102	10.290482
50	9.7097309	9.9338229	9.775908	10.224092	10.066178	10.290270
51	9.7099419	9.9337479	9.776195	10.223805	10.066253	10.290058
52	9.7101539	9.9336719	9.776482	10.223518	10.066329	10.289847
53	9.7103649	9.9335969	9.776768	10.223231	10.066404	10.289636
54	9.7105759	9.9335209	9.777055	10.222945	10.066480	10.289425
55	9.7107869	9.9334449	9.777342	10.222658	10.066555	10.289214
56	9.7109979	9.9333699	9.777628	10.222372	10.066631	10.289003
57	9.7112089	9.9332939	9.777915	10.222085	10.066707	10.288792
58	9.7114199	9.9332179	9.778201	10.221799	10.066783	10.288581
59	9.7116299	9.933149	9.778487	10.221512	10.066858	10.288371
60	9.7118399	9.9330669	9.778774	10.221226	10.066934	10.288161

Sine.

Secant.

59 Degrees.

Q

A Table of Artificial Sines.

31 Degrees.

Min.	Sine.	Tang.	Secant.	Min.
0	9.711839	9.933066	9.778774	10.221226
1	9.712049	9.932990	9.779060	10.220940
2	9.712260	9.932914	9.779346	10.220654
3	9.712469	9.932838	9.779632	10.220368
4	9.712679	9.932762	9.779918	10.220082
5	9.712889	9.932685	9.780203	10.219797
6	9.713098	9.932609	9.780489	10.219511
7	9.713308	9.932533	9.780775	10.219225
8	9.713517	9.932457	9.781060	10.218940
9	9.713726	9.932380	9.781346	10.218654
10	9.713935	9.932304	9.781631	10.218369
11	9.714144	9.932228	9.781916	10.218084
12	9.714352	9.932151	9.782201	10.217799
13	9.714561	9.932075	9.782486	10.217514
14	9.714769	9.931998	9.782771	10.217229
15	9.714978	9.931921	9.783056	10.216945
16	9.715186	9.931845	9.783341	10.216660
17	9.715394	9.931768	9.783626	10.216374
18	9.715601	9.931691	9.783910	10.216090
19	9.715809	9.931614	9.784194	10.215805
20	9.716017	9.931537	9.784479	10.215521
21	9.716224	9.931460	9.784794	10.215236
22	9.716432	9.931383	9.785048	10.214952
23	9.716630	9.931306	9.785332	10.214668
24	9.716846	9.931229	9.785616	10.214384
25	9.717053	9.931152	9.785900	10.214100
26	9.717259	9.931075	9.786184	10.213816
27	9.717466	9.930998	9.786468	10.213532
28	9.717672	9.930920	9.786752	10.213248
29	9.717879	9.930843	9.787036	10.212964
30	9.718085	9.930766	9.787319	10.212681
	Sine.	Tang.	Secant.	Min.

58 Degrees.

Tangents and Secants.

27 Degrees.

Min.	Sine.		Tang.		Secant.
30	9.664406	9.947929	9.716477	10.283523	10.335594
31	9.664648	9.947863	9.716785	10.283215	10.335352
32	9.664891	9.947797	9.717093	10.282907	10.335129
33	9.665133	9.947731	9.717401	10.282599	10.334867
34	9.665375	9.947665	9.717709	10.282291	10.334625
35	9.665617	9.947599	9.718017	10.281983	10.334383
36	9.665859	9.947533	9.718325	10.281675	10.334141
37	9.666100	9.947467	9.718633	10.281367	10.333900
38	9.666341	9.947401	9.718940	10.281060	10.333658
39	9.666583	9.947335	9.719248	10.280752	10.333417
40	9.666824	9.947269	9.719555	10.280445	10.333176
41	9.667065	9.947203	9.719862	10.280138	10.332935
42	9.667305	9.947136	9.720169	10.279831	10.332695
43	9.667546	9.947070	9.720476	10.279524	10.332454
44	9.667786	9.947004	9.720783	10.279217	10.332214
45	9.668026	9.946937	9.721089	10.278911	10.331973
46	9.668266	9.946871	9.721390	10.278604	10.331733
47	9.668506	9.946804	9.721702	10.278298	10.331494
48	9.668746	9.946738	9.722008	10.277991	10.331254
49	9.668986	9.946671	9.722315	10.277685	10.331014
50	9.669225	9.946604	9.722621	10.277379	10.330775
51	9.669464	9.946538	9.722927	10.277073	10.330536
52	9.669703	9.946471	9.723232	10.276768	10.330297
53	9.669942	9.946404	9.723538	10.276462	10.330058
54	9.670181	9.946337	9.723844	10.276156	10.329819
55	9.670419	9.946270	9.724149	10.275851	10.329581
56	9.670658	9.946203	9.724454	10.275546	10.329342
57	9.670896	9.946136	9.724759	10.275240	10.329104
58	9.671134	9.946069	9.725065	10.274935	10.328866
59	9.671372	9.946002	9.725369	10.274630	10.328628
60	9.671609	9.945935	9.725674	10.274326	10.328391
	1 Sine.		Tang.		Secant.

62 Degrees.

A Table of Artificial Sines,

28 Degrees.

Min.	Sine.	Tang.	Secant.	Min.
0	9.671629	9.945935	9.725674	10.328391
1	9.671847	9.945868	9.725979	10.328153
2	9.672084	9.945800	9.726284	10.327916
3	9.672321	9.945733	9.726588	10.327079
4	9.672558	9.945666	9.726892	10.327442
5	9.672795	9.945598	9.727197	10.327205
6	9.673032	9.945531	9.727501	10.326968
7	9.673268	9.945464	9.727805	10.326732
8	9.673505	9.945396	9.728109	10.326495
9	9.673741	9.945328	9.728412	10.326259
10	9.673977	9.945261	9.728716	10.326023
11	9.674213	9.945193	9.729020	10.325787
12	9.674448	9.945125	9.729323	10.325551
13	9.674684	9.945058	9.729626	10.325316
14	9.674919	9.944990	9.729929	10.325081
15	9.675155	9.944922	9.730232	10.324845
16	9.675390	9.944854	9.730535	10.324610
17	9.675624	9.944786	9.730838	10.324376
18	9.675859	9.944718	9.731141	10.324141
19	9.676094	9.944650	9.731444	10.323906
20	9.676328	9.944582	9.731747	10.323672
21	9.676562	9.944514	9.732048	10.323438
22	9.676797	9.944446	9.732351	10.323204
23	9.677030	9.944377	9.732653	10.322970
24	9.677264	9.944309	9.732955	10.322736
25	9.677497	9.944241	9.733257	10.322502
26	9.677731	9.944172	9.733558	10.322269
27	9.677964	9.944104	9.733860	10.322036
28	9.678197	9.944036	9.734162	10.321803
29	9.678430	9.943967	9.734463	10.321570
30	9.678663	9.943898	9.734764	10.321337
	Sine.	Tang.	Secant.	Min.

63 Degrees.

51

Tangents and Secants.

1 29 Degrees.

Min.	Sine.	Tang.	Secant.
30	9.692339	9.939697	10.247358
31	9.692562	9.939625	10.247063
32	9.692785	9.939554	10.246769
33	9.693009	9.939482	10.246474
34	9.693231	9.939410	10.246180
35	9.693453	9.939339	10.245885
36	9.693676	9.939267	10.245591
37	9.693898	9.939190	10.245297
38	9.694120	9.939123	10.245003
39	9.694342	9.939051	10.244709
40	9.694564	9.938980	10.244415
41	9.694786	9.938908	10.244122
42	9.695007	9.938836	10.243828
43	9.695229	9.938763	10.243535
44	9.695450	9.938691	10.243241
45	9.695671	9.938619	10.242948
46	9.695892	9.938547	10.242655
47	9.696113	9.938475	10.242362
48	9.696334	9.938402	10.242069
49	9.696554	9.938330	10.241776
50	9.696774	9.938258	10.241483
51	9.696995	9.938185	10.241190
52	9.697215	9.938113	10.240898
53	9.697435	9.938040	10.240605
54	9.697654	9.937967	10.240312
55	9.697874	9.937895	10.240021
56	9.698094	9.937822	10.239728
57	9.698313	9.937749	10.239436
58	9.698532	9.937676	10.239144
59	9.698751	9.937603	10.238852
60	9.698970	9.937531	10.238561
	Sine.	Tang.	Secant.

60 Degrees.

M

A Table of Artificial Sines,

30 Degrees.

Min.	Sine.	Tang.	Secant.	Min.
09.698970	9.937531	9.761439	10.238561	10.301030
19.699189	9.937458	9.761731	10.238269	10.30081159
29.699407	9.937385	9.762023	10.237977	10.30059358
39.699626	9.937312	9.762314	10.237686	10.30037457
49.699844	9.937238	9.762606	10.237394	10.30015656
59.700062	9.937165	9.762897	10.237103	10.29993855
69.700280	9.937092	9.763188	10.236812	10.29972054
79.700498	9.937019	9.763479	10.236521	10.29950253
89.700716	9.936946	9.763770	10.236230	10.29928452
99.700933	9.936872	9.764061	10.235939	10.29906751
109.701151	9.936799	9.764352	10.235648	10.29884950
119.701368	9.936725	9.764643	10.235357	10.29863249
129.701585	9.936652	9.764933	10.235067	10.29841548
139.701802	9.936578	9.765224	10.234776	10.29819847
149.702019	9.936505	9.765514	10.234486	10.29798146
159.702236	9.936431	9.765805	10.234195	10.29776445
169.702452	9.936357	9.766095	10.233905	10.29754844
179.702669	9.936284	9.766385	10.233615	10.29733443
189.702885	9.936210	9.766675	10.233325	10.29711542
199.703101	9.936136	9.766965	10.233035	10.29689941
209.703317	9.936062	9.767255	10.232745	10.29668340
219.703533	9.935988	9.767545	10.232455	10.29646739
229.703749	9.935914	9.767834	10.232166	10.29625138
239.703964	9.935840	9.768124	10.231876	10.29603637
249.704170	9.935766	9.768413	10.231584	10.29582036
259.704395	9.935692	9.768703	10.231297	10.29560535
269.704610	9.935618	9.768992	10.231008	10.29539034
279.704825	9.935543	9.769281	10.230719	10.29517533
289.705040	9.935469	9.769570	10.230429	10.29496032
299.705254	9.935395	9.769860	10.230140	10.29474631
309.705469	9.935320	9.770148	10.229871	10.29453130
	Sine.	Tang.	Secant.	Min.

59 Degrees.

59

Tangents and Secants.

31 Degrees.

Min.	Sine.		Tang.		Secant.		Min.
30	9.718085	9.930766	9.787319	10.212681	10.069234	10.281915	30
31	9.718291	9.930688	9.787603	10.212397	10.069312	10.281709	29
32	9.718497	9.930611	9.787886	10.212114	10.069389	10.281503	28
33	9.718703	9.930533	9.788170	10.211830	10.069467	10.281297	27
34	9.718909	9.930456	9.788453	10.211547	10.069544	10.281091	26
35	9.719114	9.930378	9.788736	10.211264	10.069622	10.280886	25
36	9.719320	9.930300	9.789019	10.210981	10.069700	10.280680	24
37	9.719525	9.930223	9.789302	10.210698	10.069777	10.280475	23
38	9.719730	9.930145	9.789585	10.210415	10.069855	10.280270	22
39	9.719935	9.930067	9.789868	10.210132	10.069933	10.280065	21
40	9.720140	9.929989	9.790151	10.209849	10.070011	10.279860	20
41	9.720345	9.929911	9.790433	10.209566	10.070089	10.279655	19
42	9.720549	9.929833	9.790716	10.209284	10.070167	10.279451	18
43	9.720754	9.929755	9.790999	10.209001	10.070245	10.279246	17
44	9.720958	9.929677	9.791281	10.208719	10.070323	10.279042	16
45	9.721162	9.929599	9.791563	10.208436	10.070401	10.278838	15
46	9.721366	9.929521	9.791846	10.208154	10.070479	10.278634	14
47	9.721570	9.929442	9.792128	10.207872	10.070558	10.278430	13
48	9.721774	9.929364	9.792410	10.207590	10.070636	10.278226	12
49	9.721978	9.929286	9.792692	10.207308	10.070714	10.278022	11
50	9.722181	9.929207	9.792974	10.207026	10.070793	10.277819	10
51	9.722385	9.929129	9.793256	10.206744	10.070871	10.277615	9
52	9.722588	9.929050	9.793538	10.206462	10.070950	10.277412	8
53	9.722791	9.928972	9.793819	10.206180	10.071028	10.277209	7
54	9.722994	9.928893	9.794101	10.205899	10.071107	10.277006	6
55	9.723197	9.928814	9.794383	10.205617	10.071185	10.276805	5
56	9.723400	9.928736	9.794664	10.205336	10.071264	10.276603	4
57	9.723603	9.928657	9.794945	10.205054	10.071343	10.276397	3
58	9.723805	9.928578	9.795227	10.204773	10.071422	10.276195	2
59	9.724007	9.928499	9.795508	10.204492	10.071501	10.275992	1
60	9.724210	9.928420	9.795789	10.204211	10.071579	10.275790	0
	Sine.		Tang.		Secant.		Min.

58 Degrees.

A Table of Artificial Sines,

32 Degrees.

Min.	Sine.	Tang.	Secant.	Min.
09.72421	9.928420	9.795289	10.204211	10.071579 10.275790 60
19.72441	9.928341	9.796070	10.203930	10.071658 10.275588 59
29.72461	9.928262	9.796351	10.203649	10.071737 10.275386 58
39.72481	9.928183	9.796632	10.203368	10.071817 10.275184 57
49.72501	9.928104	9.796913	10.203087	10.071896 10.274983 56
59.72521	9.928025	9.797194	10.202806	10.071975 10.274781 55
69.72542	9.927946	9.797474	10.202525	10.072054 10.274580 54
79.72562	9.927867	9.797755	10.202245	10.072133 10.274378 53
89.72582	9.927787	9.798036	10.201964	10.072213 10.274177 52
99.72602	9.927704	9.798316	10.201684	10.072292 10.273976 51
109.72622	9.927628	9.798596	10.201404	10.072371 10.273775 50
119.72642	9.927549	9.798877	10.201123	10.072451 10.273574 49
129.72662	9.927469	9.799157	10.200843	10.072530 10.273374 48
139.72682	9.927390	9.799437	10.200563	10.072610 10.273173 47
149.72702	9.927310	9.799717	10.200283	10.072690 10.272973 46
159.72722	9.927231	9.799997	10.200003	10.072769 10.272772 45
169.72742	9.927151	9.800277	10.199723	10.072849 10.272572 44
179.72762	9.927071	9.800557	10.199443	10.072929 10.272372 43
189.72782	9.926991	9.800836	10.199163	10.073009 10.272172 42
199.72802	9.926911	9.801116	10.198884	10.073089 10.271972 41
209.72822	9.926831	9.801396	10.198604	10.073169 10.271773 40
219.72842	9.926751	9.801675	10.198325	10.073249 10.271573 39
229.72862	9.926671	9.801955	10.198045	10.073329 10.271374 38
239.72882	9.926591	9.802234	10.197765	10.073409 10.271175 37
249.72902	9.926511	9.802513	10.197487	10.073489 10.270976 36
259.72922	9.926431	9.802792	10.197207	10.073569 10.270777 35
269.72942	9.926351	9.803072	10.196928	10.073649 10.270578 34
279.72962	9.926270	9.803351	10.196649	10.073730 10.270379 33
289.72982	9.926190	9.803630	10.196370	10.073810 10.270180 32
299.73001	9.926110	9.803908	10.196091	10.073891 10.269982 31
309.73021	9.926029	9.804187	10.195813	10.073971 10.269783 30
	Sine.	Tang.	Secant.	Min.

57 Degrees.

60

Tangents and Secants.

32 Degrees.

Min.	Sine.	Tang.		Secant.		
30	9.730216	9.926029	9.804187	10.195813	10.073971	10.269783
31	9.730415	9.925949	9.804466	10.195534	10.074051	10.269585
32	9.730613	9.925868	9.804745	10.195255	10.074132	10.269387
33	9.730811	9.925787	9.805023	10.194977	10.074212	10.269189
34	9.731009	9.925707	9.805302	10.194698	10.074293	10.268991
35	9.731206	9.925626	9.805580	10.194420	10.074374	10.268794
36	9.731404	9.925545	9.805859	10.194141	10.074455	10.268596
37	9.731601	9.925465	9.806137	10.193863	10.074535	10.268398
38	9.731799	9.925384	9.806415	10.193585	10.074616	10.268201
39	9.731996	9.925303	9.806693	10.193307	10.074697	10.268004
40	9.732193	9.925222	9.806971	10.193029	10.074778	10.267807
41	9.732390	9.925141	9.807249	10.192751	10.074859	10.267601
42	9.732587	9.925051	9.807527	10.192473	10.074940	10.267413
43	9.732784	9.924979	9.807805	10.192195	10.075021	10.267216
44	9.732980	9.924897	9.808083	10.191917	10.075103	10.267020
45	9.733177	9.924816	9.808361	10.191639	10.075184	10.266823
46	9.733373	9.924735	9.808638	10.191362	10.075265	10.266627
47	9.733569	9.924653	9.808916	10.191084	10.075346	10.266431
48	9.733765	9.924572	9.809193	10.190807	10.075428	10.266235
49	9.733961	9.924491	9.809471	10.190529	10.075509	10.266039
50	9.734157	9.924409	9.809748	10.190252	10.075591	10.265843
51	9.734353	9.924328	9.810025	10.189975	10.075672	10.265647
52	9.734548	9.924246	9.810302	10.189697	10.075754	10.265451
53	9.734744	9.924164	9.810580	10.189420	10.075836	10.265256
54	9.734939	9.924083	9.810587	10.189143	10.075917	10.265061
55	9.735134	9.924011	9.811134	10.188866	10.075999	10.264865
56	9.735330	9.923919	9.811410	10.188589	10.076080	10.264670
57	9.735525	9.923837	9.811687	10.188313	10.076163	10.264475
58	9.735719	9.923755	9.811964	10.188036	10.076245	10.264280
59	9.735914	9.923673	9.812241	10.187759	10.076327	10.264086
60	9.736109	9.923591	9.812517	10.187483	10.076409	10.263891
	Sine.	Tang.		Secant.		Min.

57 Degrees.

A Table of Artificial Sines,

33 Degrees.

Min.	Sine.		Tang.		Secant.	
0	9.736103	9.923591	9.812517	10.187483	10.076409	10.263891
1	9.736303	9.923509	9.812794	10.187206	10.076491	10.263697
2	9.736498	9.923427	9.813070	10.186930	10.076573	10.263502
3	9.736692	9.923345	9.813347	10.186653	10.076655	10.263308
4	9.736886	9.923263	9.813623	10.186377	10.076737	10.263114
5	9.737080	9.923180	9.813899	10.186101	10.076819	10.262920
6	9.737274	9.923098	9.814175	10.185824	10.076902	10.262726
7	9.737467	9.923016	9.814452	10.185548	10.076984	10.262532
8	9.737661	9.922933	9.814728	10.185272	10.077057	10.262339
9	9.737855	9.922851	9.815004	10.184996	10.077149	10.262145
10	9.738048	9.922768	9.815279	10.184720	10.077232	10.261952
11	9.738241	9.922686	9.815555	10.184445	10.077316	10.261759
12	9.738434	9.922603	9.815831	10.184169	10.077397	10.261566
13	9.738627	9.922520	9.816107	10.183893	10.077479	10.261373
14	9.738820	9.922438	9.816382	10.183618	10.077562	10.261180
15	9.739013	9.922355	9.816658	10.183342	10.077645	10.260987
16	9.739205	9.922272	9.816933	10.183066	10.077728	10.260794
17	9.739398	9.922189	9.817209	10.182791	10.077811	10.260602
18	9.739590	9.922106	9.817484	10.182516	10.077894	10.260410
19	9.739783	9.922023	9.817759	10.182240	10.077977	10.260217
20	9.739975	9.921940	9.818035	10.181965	10.078060	10.260025
21	9.740167	9.921857	9.818310	10.181690	10.078143	10.259833
22	9.740359	9.921774	9.818585	10.181415	10.078226	10.259641
23	9.740570	9.921691	9.818860	10.181140	10.078309	10.259449
24	9.740742	9.921607	9.819131	10.180865	10.078393	10.259258
25	9.740934	9.921524	9.819410	10.180590	10.078476	10.259066
26	9.741125	9.921441	9.819684	10.180316	10.078559	10.258875
27	9.741316	9.921357	9.819959	10.180041	10.078643	10.258684
28	9.741507	9.921274	9.810234	10.179766	10.078726	10.248492
29	9.741699	9.921190	9.810508	10.179492	10.078810	10.258301
30	9.741889	9.921107	9.810783	10.179217	10.078893	10.258110
		Sine.		Tang.		Secant.

56 Degrees.

Tangents and Secants.

33 Degrees.

Min.	Sine.		Tang.		Secant.		
30	9.741889	9.921107	9.820783	10.179217	10.078893	10.258110	30
31	9.742080	9.921023	9.821057	10.178943	10.078977	10.257920	29
32	9.742271	9.920939	9.821332	10.178668	10.079061	10.257729	28
33	9.742462	9.920855	9.821606	10.178394	10.079144	10.257538	27
34	9.742652	9.920772	9.821880	10.178120	10.079228	10.257348	26
35	9.742842	9.920688	9.822154	10.177845	10.079312	10.257158	25
36	9.743032	9.920604	9.822429	10.177571	10.079396	10.256967	24
37	9.743222	9.920520	9.822703	10.177297	10.079480	10.256777	23
38	9.743412	9.920436	9.822977	10.177023	10.079564	10.256587	22
39	9.743602	9.920352	9.823250	10.176749	10.079648	10.256398	21
40	9.743792	9.920268	9.823524	10.176476	10.079732	10.256208	20
41	9.743982	9.920184	9.823798	10.176202	10.079816	10.256018	19
42	9.744171	9.920099	9.824072	10.175928	10.079901	10.255829	18
43	9.744361	9.920015	9.824345	10.175654	10.079985	10.255639	17
44	9.744550	9.919931	9.824619	10.175381	10.080069	10.255540	16
45	9.744739	9.919846	9.824893	10.175107	10.080154	10.255261	15
46	9.744928	9.919762	9.825166	10.174834	10.080238	10.255072	14
47	9.745117	9.919677	9.825439	10.174561	10.080322	10.254883	13
48	9.745306	9.919593	9.825713	10.174287	10.080407	10.254694	12
49	9.745494	9.919508	9.825986	10.174014	10.080492	10.254506	11
50	9.745683	9.919424	9.826259	10.173741	10.080576	10.254317	10
51	9.745871	9.919339	9.826532	10.173468	10.080661	10.254129	9
52	9.746059	9.919254	9.826805	10.173195	10.080746	10.253940	8
53	9.746248	9.919169	9.827078	10.172922	10.080831	10.253752	7
54	9.746436	9.919084	9.827351	10.172649	10.080915	10.253564	6
55	9.746624	9.919000	9.827624	10.172376	10.081000	10.253376	5
56	9.746811	9.918915	9.827897	10.172103	10.081085	10.253188	4
57	9.746999	9.918830	9.828170	10.171830	10.081170	10.253001	3
58	9.747187	9.918744	9.828442	10.171558	10.081255	10.252813	2
59	9.747374	9.918659	9.828715	10.171285	10.081341	10.252626	1
60	9.747562	9.918574	9.828987	10.171013	10.081426	10.252438	0
	Sine.		Tang.		Secant.		Min.

56 Degrees.

A Table of Artificial Sines,

34 Degrees.

Min.	Sine.	Tang.	Secant.	Min.			
0	9.747562	9.918574	9.828987	10.171013	10.081426	10.252438	60
1	9.747749	9.918489	9.829260	10.170740	10.081511	10.252251	59
2	9.747936	9.918404	9.829532	10.170468	10.081596	10.252064	58
3	9.748123	9.918318	9.829805	10.170195	10.081682	10.251877	57
4	9.748310	9.918233	9.830077	10.169923	10.081767	10.251690	56
5	9.748497	9.918147	9.830349	10.169651	10.081852	10.251503	55
6	9.748683	9.918062	9.830621	10.169379	10.081938	10.251317	54
7	9.748870	9.917976	9.830893	10.169107	10.082024	10.251130	53
8	9.749056	9.917891	9.831165	10.168835	10.082109	10.250944	52
9	9.749242	9.917805	9.831437	10.168563	10.082195	10.250757	51
10	9.749429	9.917719	9.831709	10.168291	10.082281	10.250571	50
11	9.749615	9.917634	9.831981	10.168019	10.082366	10.250385	49
12	9.749801	9.917548	9.832253	10.167747	10.082452	10.250199	48
13	9.749987	9.917462	9.832525	10.167475	10.082538	10.250013	47
14	9.750172	9.917376	9.832796	10.167204	10.082624	10.249828	46
15	9.750358	9.917290	9.833068	10.166932	10.082710	10.249642	45
16	9.750543	9.917204	9.833339	10.166661	10.082796	10.249457	44
17	9.750729	9.917118	9.833611	10.166389	10.082882	10.249271	43
18	9.750914	9.917032	9.833882	10.166118	10.082968	10.249086	42
19	9.751099	9.916945	9.834154	10.165846	10.083054	10.248901	41
20	9.751284	9.916859	9.834425	10.165575	10.083141	10.248716	40
21	9.751469	9.916773	9.834696	10.165304	10.083227	10.248531	39
22	9.751654	9.916687	9.834967	10.165033	10.083313	10.248346	38
23	9.751838	9.916600	9.835238	10.164762	10.083400	10.248161	37
24	9.752023	9.916514	9.835509	10.164491	10.083486	10.247977	36
25	9.752207	9.916427	9.835780	10.164220	10.083573	10.247792	35
26	9.752392	9.916341	9.836051	10.163949	10.083655	10.247608	34
27	9.752576	9.916254	9.836322	10.163678	10.083746	10.247424	33
28	9.752760	9.916167	9.836593	10.163407	10.083833	10.247241	32
29	9.752944	9.916080	9.836864	10.163136	10.083915	10.247050	31
30	9.753128	9.915994	9.837134	10.162866	10.084006	10.246872	30
	Sine.		Tang.		Secant.		Min.

55 Degrees.

Tangents and Secants.

34 Degrees.

Min.	Sine.	Tang.	Secant.	
30	9.753128	9.915994	9.837134	10.162866
31	9.753312	9.915907	9.837405	10.162595
32	9.753495	9.915820	9.837675	10.162324
33	9.753679	9.915733	9.837946	10.162054
34	9.753862	9.915646	9.838216	10.161784
35	9.754046	9.915559	9.838487	10.161513
36	9.754229	9.915472	9.838757	10.161243
37	9.754412	9.915385	9.839027	10.160973
38	9.754595	9.915297	9.839297	10.160702
39	9.754778	9.915210	9.839568	10.160432
40	9.754960	9.915123	9.839838	10.160162
41	9.755143	9.915035	9.840108	10.159892
42	9.755326	9.914948	9.840378	10.159622
43	9.755508	9.914860	9.840647	10.159352
44	9.755690	9.914773	9.840917	10.159083
45	9.755872	9.914685	9.841187	10.158813
46	9.756054	9.914598	9.841457	10.158543
47	9.756236	9.914510	9.841726	10.158273
48	9.756418	9.914422	9.841996	10.158004
49	9.756600	9.914334	9.842266	10.157734
50	9.756781	9.914246	9.842535	10.157465
51	9.756963	9.914158	9.842805	10.157195
52	9.757144	9.914070	9.843074	10.156926
53	9.757326	9.913982	9.843343	10.156657
54	9.757507	9.913894	9.843612	10.156388
55	9.757688	9.913806	9.843882	10.156118
56	9.757869	9.913718	9.844151	10.155849
57	9.758049	9.913630	9.844420	10.155580
58	9.758230	9.913541	9.844689	10.155311
59	9.758411	9.913453	9.844958	10.155042
60	9.758591	9.913364	9.845227	10.154773
	Sine.	Tang.	Secant.	

61 Degrees.

K

A Table of Artificial Sines,

35 Degrees.

Min.	Sine.	Tang.	Secant.	Min.			
0	9.758591	9.913364	9.845227	10.154773	10.086653	10.241409	60
1	9.758772	9.913276	9.845496	10.154504	10.086724	10.241228	59
2	9.758952	9.913187	9.845764	10.154236	10.086812	10.241048	58
3	9.759132	9.913099	9.846033	10.153967	10.086901	10.240868	57
4	9.759312	9.913010	9.846302	10.153698	10.086990	10.240688	56
5	9.759492	9.912921	9.846570	10.153429	10.087078	10.240508	55
6	9.759672	9.912833	9.846839	10.153161	10.087167	10.240328	54
7	9.759851	9.912744	9.847107	10.152892	10.087256	10.240148	53
8	9.760031	9.912655	9.847376	10.152624	10.087345	10.239969	52
9	9.760211	9.912566	9.847644	10.152356	10.087434	10.239789	51
10	9.760390	9.912477	9.847913	10.152087	10.087523	10.239610	50
11	9.760569	9.912388	9.848181	10.151819	10.087612	10.239431	49
12	9.760748	9.912299	9.848449	10.15155	10.087701	10.239252	48
13	9.760927	9.912210	9.848717	10.151283	10.087790	10.239073	47
14	9.761106	9.912121	9.848985	10.151014	10.087879	10.23889	46
15	9.761285	9.912031	9.849254	10.150746	10.087968	10.238715	45
16	9.761464	9.911942	9.849522	10.150478	10.088058	10.238536	44
17	9.761642	9.911853	9.849790	10.150210	10.088147	10.338358	43
18	9.761821	9.911763	9.840057	10.149942	10.088237	10.238179	42
19	9.761999	9.911674	9.850325	10.149675	10.088326	10.238001	41
20	9.762177	9.911584	9.850593	10.149407	10.088416	10.237822	40
21	9.762356	9.911495	9.850861	10.149139	10.088505	10.237644	39
22	9.762534	9.911405	9.851128	10.148871	10.088595	10.237466	38
23	9.762712	9.911315	9.851396	10.148604	10.088684	10.237288	37
24	9.762889	9.911226	9.851664	10.148336	10.088774	10.237111	36
25	9.763067	9.911136	9.851931	10.148069	10.088864	10.236933	35
26	9.763245	9.911046	9.852199	10.147801	10.088954	10.236755	34
27	9.763422	9.910956	9.852466	10.147534	10.089044	10.236578	33
28	9.763600	9.910866	9.852733	10.147266	10.089134	10.236400	32
29	9.763777	9.910776	9.853001	10.146999	10.089224	10.236223	31
30	9.763954	9.910686	9.853268	10.146732	10.089314	10.236046	30
	Sine.	Tang.	Secant.				Min.

54 Degrees.

Tangents and Secants.

63

35 Degrees.

Min.	Sine.		Tang.		Secant.		Min.
30	9.763954	9.910686	9.853268	10.146732	10.089314	10.236046	30
31	9.764131	9.910596	9.853535	10.146465	10.089404	10.235869	29
32	9.764308	9.910506	9.853802	10.146198	10.089494	10.235692	28
33	9.764485	9.910415	9.854069	10.145931	10.089585	10.235515	27
34	9.764662	9.910325	9.854336	10.145664	10.089675	10.235338	26
35	9.764838	9.910235	9.854603	10.145397	10.089765	10.235162	25
36	9.765015	9.910144	9.854870	10.145130	10.089856	10.234985	24
37	9.765191	9.910054	9.855137	10.144863	10.089946	10.234809	23
38	9.765367	9.909963	9.855404	10.144596	10.090037	10.234633	22
39	9.765544	9.909873	9.855671	10.144329	10.090127	10.234466	21
40	9.765720	9.909782	9.855938	10.144062	10.090218	10.234280	20
41	9.765896	9.909691	9.856204	10.143796	10.090308	10.234104	19
42	9.766071	9.909601	9.856471	10.143529	10.090399	10.233928	18
43	9.766247	9.909510	9.856737	10.143263	10.090490	10.233753	17
44	9.766423	9.909419	9.857004	10.142996	10.090581	10.233577	16
45	9.766598	9.909328	9.857270	10.142730	10.090672	10.233401	15
46	9.766774	9.909237	9.857537	10.142463	10.090763	10.233226	14
47	9.766949	9.909146	9.857803	10.142197	10.090854	10.233051	13
48	9.767124	9.909055	9.858069	10.141931	10.090945	10.232876	12
49	9.767290	9.908964	9.858336	10.141664	10.091036	10.232700	11
50	9.767475	9.908873	9.858602	10.141398	10.091127	10.232525	10
51	9.767649	9.908781	9.858868	10.141132	10.091219	10.232351	9
52	9.767824	9.908691	9.859134	10.140866	10.091310	10.232176	8
53	9.767999	9.908599	9.859400	10.140600	10.091401	10.232001	7
54	9.768173	9.908507	9.859666	10.140334	10.091493	10.231826	6
55	9.768348	9.908416	9.859932	10.140068	10.091584	10.231652	5
56	9.768522	9.908324	9.860198	10.139802	10.091676	10.231478	4
57	9.768697	9.908233	9.860464	10.139536	10.091767	10.231303	3
58	9.768871	9.908141	9.860730	10.139270	10.091855	10.231129	2
59	9.769046	9.908049	9.860995	10.139005	10.091951	10.230955	1
60	9.769219	9.907958	9.861261	10.138739	10.092042	10.230781	0
	Sine.		Tang.		Secant.		Min.

58 Degrees.

A Table of Artificial Sines,

36 Degrees.

Min.	Sine.		Tang.		Secant.		Min.
0	9.769219	9.907958	9.861261	10.138739	10.092042	10.230781	60
1	9.769392	9.907866	9.861527	10.138473	10.092134	10.230607	59
2	9.769566	9.907774	9.861792	10.138208	10.092226	10.230434	58
3	9.769740	9.907682	9.862058	10.137942	10.092318	10.230260	57
4	9.769913	9.907590	9.862323	10.137677	10.092410	10.230087	56
5	9.770087	9.907498	9.862589	10.137411	10.092502	10.229913	55
6	9.770260	9.907406	9.862854	10.137146	10.092594	10.229740	54
7	9.770433	9.907314	9.863119	10.136880	10.092686	10.229567	53
8	9.770606	9.907221	9.863385	10.136615	10.092778	10.229394	52
9	9.770779	9.907129	9.863650	10.136350	10.092871	10.229220	51
10	9.770952	9.907037	9.863915	10.136085	10.092963	10.229048	50
11	9.771125	9.906945	9.864180	10.135820	10.093055	10.228875	49
12	9.771298	9.906852	9.864445	10.135555	10.093148	10.228702	48
13	9.771470	9.906760	9.864710	10.135289	10.093240	10.228520	47
14	9.771642	9.906667	9.864975	10.135024	10.093333	10.228357	46
15	9.771815	9.906574	9.865240	10.134760	10.093425	10.228185	45
16	9.771987	9.906482	9.865505	10.134495	10.093518	10.228013	44
17	9.772159	9.906389	9.865770	10.134230	10.093611	10.227841	43
18	9.772331	9.906296	9.866035	10.133965	10.093704	10.227669	42
19	9.772503	9.906204	9.866300	10.133700	10.093796	10.227497	41
20	9.772675	9.906111	9.866564	10.133436	10.093889	10.227325	40
21	9.772847	9.906018	9.866829	10.133171	10.093982	10.227153	39
22	9.773018	9.905925	9.867094	10.132906	10.094075	10.226981	38
23	9.773190	9.905832	9.867358	10.132642	10.094168	10.226810	37
24	9.773361	9.905739	9.867623	10.132377	10.094261	10.226639	36
25	9.773533	9.905645	9.867887	10.132113	10.094355	10.226467	35
26	9.773704	9.905552	9.868152	10.131848	10.094448	10.226296	34
27	9.773875	9.905459	9.868416	10.131584	10.094541	10.226125	33
28	9.774046	9.905366	9.868680	10.131320	10.094634	10.225954	32
29	9.774217	9.905272	9.868945	10.131055	10.094728	10.225783	31
30	9.774388	9.905179	9.869209	10.130791	10.094821	10.225612	30

Sine.

Tang.

Secant.

62 Degrees.

Min.

Tangents and Secants.

64

36 Degrees.

Min.	Sine.		Tang.		Secant.	
30	9.774388	9.905179	9.869209	10.130791	10.094821	10.225612
31	9.744558	9.905085	9.869473	10.130527	10.094915	10.225442
32	9.774729	9.904992	9.869737	10.130263	10.095008	10.225271
33	9.774899	9.904898	9.870001	10.129999	10.095102	10.225101
34	9.775070	9.904804	9.870265	10.129735	10.095196	10.224930
35	9.775240	9.904711	9.870529	10.129471	10.095289	10.224760
36	9.775410	9.904617	9.870793	10.129207	10.095383	10.224590
37	9.775580	9.904528	9.871057	10.128943	10.095477	10.224420
38	9.775750	9.904429	9.871321	10.128679	10.095571	10.224250
39	9.775920	9.904335	9.871585	10.128415	10.095665	10.224080
40	9.776090	9.904241	9.871849	10.128151	10.095759	10.223910
41	9.776259	9.904147	9.872112	10.127888	10.095853	10.223741
42	9.776429	9.904053	9.872376	10.127624	10.095947	10.223571
43	9.776598	9.903959	9.872640	10.127360	10.096041	10.223402
44	9.776768	9.903864	9.872903	10.127097	10.096136	10.223232
45	9.776937	9.903770	9.873167	10.126833	10.096230	10.223063
46	9.777106	9.903676	9.873430	10.126570	10.096324	10.222894
47	9.777275	9.903581	9.873694	10.126306	10.096419	10.222725
48	9.777444	9.903487	9.873957	10.126042	10.096513	10.222556
49	9.777613	9.903392	9.874220	10.125780	10.096608	10.222387
50	9.777781	9.903298	9.874484	10.125516	10.096703	10.222218
51	9.777950	9.903203	9.874747	10.125253	10.096797	10.222050
52	9.778119	9.903108	9.875010	10.124990	10.096892	10.221881
53	9.778287	9.903014	9.875273	10.124727	10.096986	10.221713
54	9.778455	9.902929	9.875536	10.124463	10.097081	10.221545
55	9.778623	9.902824	9.875800	10.124200	10.097176	10.221376
56	9.778792	9.902729	9.876063	10.123937	10.097271	10.221208
57	9.778960	9.902634	9.876326	10.123674	10.097366	10.221040
58	9.779128	9.902539	9.876589	10.123411	10.097461	10.220872
59	9.779295	9.902444	9.876851	10.123148	10.097556	10.220703
60	9.779463	9.902349	9.877114	10.122886	10.097651	10.220537

Sine.

Tang.

Secant.

53 Degrees.

Min.

A Table of Artificial Sines,

37 Degrees.

Min.	Sine.	Tang.	Secant.	Min.	
0	9.779463	9.902349	9.877114	10.122886	10.220537
1	9.779631	9.902253	9.877377	10.122623	10.220369
2	9.779798	9.902158	9.877640	10.122360	10.220202
3	9.779965	9.902063	9.877903	10.122097	10.220034
4	9.780133	9.901967	9.878165	10.121835	10.219867
5	9.780300	9.901872	9.878428	10.121572	10.219700
6	9.780467	9.901776	9.878691	10.121309	10.219533
7	9.780634	9.901681	9.878953	10.121047	10.219366
8	9.780801	9.901585	9.879216	10.120784	10.219199
9	9.780968	9.901489	9.879478	10.120522	10.219032
10	9.781134	9.901394	9.879741	10.120259	10.218866
11	9.781301	9.901298	9.880003	10.119997	10.218699
12	9.781467	9.901202	9.880265	10.119735	10.218532
13	9.781634	9.901106	9.880528	10.119472	10.218366
14	9.781800	9.901010	9.880799	10.119210	10.218190
15	9.781966	9.900914	9.881052	10.118948	10.218034
16	9.782132	9.900818	9.881314	10.118686	10.217868
17	9.782298	9.900721	9.881576	10.118423	10.217702
18	9.782464	9.900626	9.881839	10.118161	10.217536
19	9.782630	9.900529	9.882101	10.117899	10.217370
20	9.782796	9.900433	9.882363	10.117637	10.217204
21	9.782961	9.900337	9.882625	10.117375	10.217039
22	9.783127	9.900240	9.882887	10.117113	10.216873
23	9.783292	9.900144	9.883148	10.116852	10.216708
24	9.783457	9.900047	9.883410	10.116590	10.216542
25	9.783623	9.899951	9.883672	10.116328	10.216377
26	9.783788	9.899854	9.883934	10.116066	10.216212
27	9.783953	9.899757	9.884196	10.115804	10.216047
28	9.784118	9.899660	9.884457	10.115543	10.215882
29	9.784282	9.899564	9.884719	10.115281	10.215718
30	9.784447	9.899467	9.884980	10.115020	10.215553
	Sine.	Tang.	Secant.	Min.	

52 Degrees.

65

Tangents and Secants.

37 Degrees.

Min.	Sine.		Tang.		Secant.		
30	9.784447	9.899467	9.884980	10.115019	10.100533	10.215553	30
31	9.784612	9.899370	9.885242	10.114758	10.100630	10.215388	29
32	9.784776	9.899272	9.885503	10.114496	10.100727	10.215224	28
33	9.784941	9.899176	9.885765	10.114235	10.100824	10.215059	27
34	9.725105	9.899078	9.886026	10.113974	10.100922	10.214895	26
35	9.785269	9.898981	9.886288	10.113712	10.101019	10.214731	25
36	9.785433	9.898884	9.886549	10.113450	10.101116	10.214567	24
37	9.785597	9.898787	9.886810	10.113189	10.101213	10.214403	23
38	9.785761	9.898689	9.887072	10.112928	10.101311	10.214239	22
39	9.785929	9.898582	9.887333	10.112667	10.101408	10.214075	21
40	9.786089	9.898494	9.887594	10.112406	10.101506	10.213911	20
41	9.786252	9.898397	9.887855	10.112145	10.101603	10.213748	19
42	9.786416	9.898499	9.888116	10.111883	10.101701	10.213584	18
43	9.786579	9.898201	9.888377	10.111622	10.101798	10.213420	17
44	9.786742	9.898104	9.888639	10.111361	10.101896	10.213258	16
45	9.786906	9.898006	9.888900	10.111100	10.101994	10.213094	15
46	9.787069	9.897908	9.889160	10.110839	10.102092	10.212931	14
47	9.787232	9.897810	9.889421	10.110579	10.102190	10.212768	13
48	9.787395	9.897712	9.889682	10.110318	10.102288	10.212605	12
49	9.787557	9.897614	9.889943	10.110057	10.102386	10.212443	11
50	9.787720	9.897516	9.890204	10.109796	10.102484	10.212280	10
51	9.787883	9.897418	9.890465	10.109535	10.102582	10.212117	9
52	9.788045	9.897322	9.890725	10.109275	10.102680	10.211955	8
53	9.788208	9.897222	9.890986	10.109014	10.102778	10.211792	7
54	9.788370	9.897123	9.891247	10.108753	10.102877	10.211630	6
55	9.788532	9.897025	9.891507	10.108493	10.102975	10.211467	5
56	9.788694	9.896926	9.891768	10.108232	10.103073	10.211305	4
57	9.788856	9.896828	9.892028	10.107971	10.103172	10.211143	3
58	9.789018	9.896729	9.892289	10.107711	10.103271	10.210982	2
59	9.789180	9.896631	9.892549	10.107451	10.103369	10.210820	1
60	9.789342	9.896532	9.892810	10.107190	10.103468	10.210658	0

Sine.

Tang.

Secant.

52 Degrees.

A Table of Artificial Sines,

38 Degrees.

Min.	Sine.	Tang.		Secant.		
0	9.789342	9.896532	9.892810	10.107190	10.103468	10.210658
1	9.789504	9.896433	9.893070	10.106930	10.103567	10.210496
2	9.789665	9.896335	9.893331	10.106669	10.103665	10.210335
3	9.789827	9.896236	9.893591	10.106409	10.103764	10.210173
4	9.789988	9.896137	9.893851	10.106149	10.103863	10.210012
5	9.790149	9.896038	9.894111	10.105889	10.100396	10.209851
6	9.790310	9.895939	9.884371	10.105628	10.104061	10.209690
7	9.790471	9.895840	9.894632	10.105368	10.104160	10.209528
8	9.790633	9.895741	9.894892	10.105108	10.104259	10.209367
9	9.790792	9.895641	9.895152	10.104848	10.104359	10.209207
10	9.790954	9.895542	9.895412	10.104588	10.104458	10.209046
11	9.791115	9.895443	9.895672	10.104328	10.104557	10.208885
12	9.791275	9.895343	9.895932	10.104068	10.104656	10.208725
13	9.791436	9.895244	9.896192	10.103808	10.104756	10.208564
14	9.791596	9.895144	9.896452	10.103548	10.104855	10.208404
15	9.791757	9.895045	9.896712	10.103288	10.104955	10.208243
16	9.791917	9.894945	9.896971	10.103029	10.105055	10.208083
17	9.792077	9.894846	9.897231	10.102769	10.105154	10.207923
18	9.792237	9.894746	9.897491	10.102500	10.105254	10.207763
19	9.792397	9.894646	9.897751	10.102249	10.105354	10.207603
20	9.792557	9.894546	9.898010	10.101990	10.105454	10.207443
21	9.792716	9.894446	9.898270	10.101730	10.105554	10.207284
22	9.792876	9.894346	9.898530	10.101470	10.105654	10.207124
23	9.793035	9.894246	9.898789	10.101211	10.105754	10.206964
24	9.793195	9.894146	9.899049	10.100951	10.105854	10.206805
25	9.793354	9.894046	9.899308	10.100692	10.105954	10.206646
26	9.793513	9.893946	9.899568	10.100432	10.106054	10.206486
27	9.793673	9.893846	9.899827	10.100173	10.106154	10.206327
28	9.793832	9.893745	9.900086	10.099913	10.106255	10.206168
29	9.793991	9.893645	9.900346	10.099654	10.106355	10.206009
30	9.794150	9.893544	9.900605	10.099395	10.106456	10.205850
	Sine.	Tang.		Secant.		Min.

51 Degrees.

Tangents and Secants.

66

38 Degrees.

Min.	Sine.	Tang.	Secant.
30	9.794150	9.893544	9.900605
31	9.794308	9.893444	9.900864
32	9.794467	9.893343	9.901124
33	9.794626	9.893243	9.901383
34	9.794784	9.893142	9.901642
35	9.794942	9.893041	9.901901
36	9.795101	9.892940	9.902160
37	9.795259	9.892839	9.902419
38	9.795417	9.892738	9.902679
39	9.795575	9.892637	9.902938
40	9.795733	9.892536	9.903197
41	9.795891	9.892435	9.903455
42	9.796049	9.892334	9.903714
43	9.796206	9.892233	9.903973
44	9.796364	9.892132	9.904232
45	9.796521	9.892030	9.904491
46	9.796679	9.891929	9.904750
47	9.796836	9.891827	9.905008
48	9.796993	9.891726	9.905267
49	9.797150	9.891624	9.905526
50	9.797307	9.891523	9.905784
51	9.797464	9.891421	9.906043
52	9.797621	9.891319	9.906302
53	9.797777	9.891217	9.906560
54	9.797930	9.891115	9.906819
55	9.798091	9.891013	9.907077
56	9.798247	9.890911	9.907336
57	9.798403	9.890809	9.907594
58	9.798560	9.890707	9.907852
59	9.798719	9.890605	9.908111
60	9.798872	9.890503	9.908369
	Sine.	Tang.	Secant.

51 Degrees.

A Table of Artificial Sines,

39 Degrees.

Min.	Sine.	Tang.	Secant.
0	9.7988729.890503	9.908369	10.109497
1	9.7990289.890400	9.908627	10.109372
2	9.7991849.890298	9.908886	10.109114
3	9.7993399.890195	9.909144	10.1090856
4	9.7994959.890093	9.909402	10.1090598
5	9.7996519.889990	9.909660	10.1090340
6	9.7998069.889888	9.909918	10.1090083
7	9.7999629.889785	9.910177	10.110215
8	9.8001479.889682	9.910435	10.110318
9	9.8002729.889579	9.910693	10.110421
10	9.8004279.889476	9.910951	10.110523
11	9.8005829.889374	9.911209	10.110626
12	9.8007379.889271	9.911467	10.110729
13	9.8008929.889167	9.911724	10.110832
14	9.8010479.889064	9.911982	10.110936
15	9.8012019.888961	9.912240	10.111039
16	9.8013559.888858	9.912498	10.111142
17	9.8015119.888755	9.912756	10.111245
18	9.8016699.888651	9.913014	10.111349
19	9.8018199.888548	9.913271	10.111452
20	9.8019739.8884449	9.913529	10.111556
21	9.8021289.888341	9.913787	10.111659
22	9.8022829.8882379	9.914044	10.111763
23	9.8024359.8881339	9.914302	10.111866
24	9.8025899.8880309	9.914560	10.111970
25	9.8027439.8879269	9.914817	10.112074
26	9.8028979.8878229	9.915075	10.112178
27	9.8030509.8877189	9.915332	10.112282
28	9.8032049.8876149	9.915590	10.112386
29	9.8033579.8875109	9.915847	10.112490
30	9.8035109.8874069	9.916104	10.112594
	Sine.	Tang.	Secant.

50 Degrees.

M

Tangents and Secants.

39 Degrees.

Min.	Sine.	Tang.	Secant.	Min.
30	9.803510	9.887406	9.916104	10.083895
31	9.803664	9.887302	9.916362	10.083638
32	9.803817	9.887198	9.916619	10.083381
33	9.803970	9.887093	9.916876	10.083123
34	9.804123	9.886989	9.917134	10.082866
35	9.804276	9.886885	9.917391	10.082609
36	9.804428	9.886780	9.917648	10.082352
37	9.804581	9.886676	9.917905	10.082094
38	9.804734	9.886571	9.918163	10.081837
39	9.804886	9.886466	9.918420	10.081580
40	9.805038	9.886362	9.918677	10.081323
41	9.805191	9.886257	9.918934	10.081066
42	9.805343	9.886152	9.919191	10.080809
43	9.805495	9.886047	9.919448	10.080552
44	9.805647	9.885942	9.919705	10.080295
45	9.805799	9.885837	9.919962	10.080038
46	9.805951	9.885732	9.920219	10.079781
47	9.806103	9.885627	9.920476	10.079524
48	9.806254	9.885521	9.920733	10.079267
49	9.806406	9.885416	9.920990	10.079010
50	9.806557	9.885311	9.921247	10.078753
51	9.806709	9.885205	9.921503	10.078497
52	9.806860	9.885100	9.921760	10.078240
53	9.807011	9.884994	9.922017	10.077983
54	9.807163	9.884889	9.922274	10.077726
55	9.807314	9.884783	9.922530	10.077470
56	9.807465	9.884677	9.922787	10.077213
57	9.80761	9.884572	9.923044	10.076956
58	9.807766	9.884466	9.923300	10.076700
59	9.807917	9.884360	9.923557	10.076443
60	9.80806	9.884254	9.923813	10.076186
	Sine.	Tang.	Secant.	Min.

50 Degrees.

A Table of Artificial Sines,

40 Degrees.

Min.	Sine.	Tang.	Secant.	M.
09.808057	9.884254	9.923813	10.076186	10.115746
19.808218	9.884148	9.924070	10.075930	10.115852
29.808368	9.884042	9.924327	10.075673	10.115958
39.808519	9.883936	9.924583	10.075417	10.116064
49.808669	9.883829	9.924840	10.075160	10.116170
59.808819	9.883723	9.925096	10.074904	10.116277
69.808969	9.883617	9.925352	10.074648	10.116383
79.809119	9.883510	9.925609	10.074391	10.116490
89.809269	9.883404	9.925865	10.074135	10.116596
99.809419	9.883297	9.926121	10.073878	10.116703
109.809569	9.883191	9.926378	10.073622	10.116809
119.809718	9.883084	9.926634	10.073366	10.116916
129.809868	9.882977	9.926890	10.073110	10.117023
139.810017	9.882871	9.927147	10.072853	10.117129
149.810167	9.882764	9.927403	10.072597	10.117236
159.810316	9.882657	9.927659	10.072341	10.117343
169.810465	9.882550	9.927915	10.072085	10.117450
179.810614	9.882443	9.928171	10.071829	10.117537
189.810763	9.882336	9.928427	10.071573	10.117664
199.810912	9.882228	9.928683	10.071316	10.117771
209.811061	9.882121	9.928940	10.071060	10.117879
219.811210	9.882014	9.929196	10.070804	10.117986
229.811358	9.881907	9.929452	10.070548	10.118093
239.811507	9.881799	9.929708	10.070292	10.118201
249.811655	9.881692	9.929964	10.070036	10.118308
259.811804	9.881584	9.930219	10.069780	10.118416
269.811952	9.881477	9.930475	10.069524	10.118523
279.812100	9.881369	9.930731	10.069269	10.118631
289.812248	9.881261	9.930987	10.069013	10.118739
299.812396	9.881153	9.931243	10.068757	10.118847
309.812544	9.881045	9.931499	10.068501	10.118954
	Sine.	Tang.	Secant.	M.

49 Degrees.

Tangents and Secants.

40 Degrees.

Min.	Sine.	Tang.	Secant.	Min.
30	9.812544	9.881055	9.931499	10.068501
31	9.812692	9.880938	9.931255	10.068245
32	9.812840	9.880830	9.932010	10.067989
33	9.812988	9.880721	9.932266	10.067734
34	9.813135	9.880613	9.932522	10.067478
35	9.813283	9.880505	9.932778	10.067222
36	9.813430	9.880397	9.933033	10.066967
37	9.813578	9.880289	9.933289	10.066711
38	9.813725	9.880180	9.933545	10.066455
39	9.813872	9.880072	9.933800	10.066200
40	9.814019	9.879963	9.934056	10.015944
41	9.814166	9.879855	9.934311	10.065689
42	9.814313	9.879746	9.934567	10.065433
43	9.814460	9.879637	9.934822	10.065177
44	9.814607	9.879529	9.935078	10.064922
45	9.814753	9.879420	9.935333	10.064666
46	9.814900	9.879311	9.935589	10.064411
47	9.815046	9.879202	9.935844	10.064156
48	9.815193	9.879093	9.936100	10.063900
49	9.815339	9.878984	9.936355	10.063645
50	9.815485	9.878875	9.936610	10.063389
51	9.815631	9.878766	9.936866	10.063134
52	9.815778	9.878656	9.937121	10.062879
53	9.815923	9.878547	9.937376	10.062623
54	9.816069	9.878438	9.937632	10.062368
55	9.816215	9.878328	9.937887	10.062113
56	9.816361	9.878219	9.938142	10.061858
57	9.816507	9.878109	9.938397	10.061602
58	9.816652	9.877999	9.938653	10.061347
59	9.816797	9.877890	9.938908	10.061092
60	9.816943	9.877780	9.939163	10.060837
	Sine.	Tang.	Secant.	Min.

49 Degrees.

A Table of Artificial Sines,

41 Degrees.

Min.	Sine.	Tang.	Secant.	Min.
09.816943	9.877780	9.939163	10.060837	10.18305760
19.817088	9.877670	9.939418	10.060582	10.18291959
29.817233	9.877560	9.939673	10.060327	10.18276758
39.817378	9.877450	9.939928	10.060072	10.18262157
49.817523	9.877340	9.940183	10.059816	10.18247656
59.817668	9.877230	9.940438	10.059561	10.18233155
69.817813	9.877120	9.940694	10.059306	10.18218754
79.817958	9.877010	9.940949	10.059051	10.18204253
89.818103	9.876899	9.941204	10.058796	10.18189752
99.818247	9.876789	9.941458	10.058541	10.18179251
109.818392	9.876678	9.941713	10.058286	10.18160850
119.818536	9.876568	9.941968	10.058032	10.18146449
129.818681	9.876457	9.942223	10.057777	10.18131948
139.818825	9.876347	9.942478	10.057522	10.18117547
149.818969	9.876236	9.942733	10.057267	10.18103146
159.819113	9.876125	9.942988	10.057011	10.18088745
169.819258	9.876014	9.943243	10.056757	10.18074344
179.819401	9.875904	9.943498	10.056502	10.18059943
189.819545	9.875793	9.943752	10.056248	10.18045542
199.819689	9.875682	9.944007	10.055993	10.18031141
209.819832	9.875571	9.944262	10.055738	10.18016740
219.819976	9.875459	9.944517	10.055483	10.18002439
229.820120	9.875348	9.944771	10.055229	10.17988038
239.820263	9.875237	9.945026	10.054974	10.17973737
249.820406	9.875126	9.945281	10.054719	10.17959436
259.820550	9.875014	9.945535	10.054465	10.17945035
269.820693	9.874903	9.945790	10.054210	10.17930734
279.820836	9.874791	9.946045	10.053955	10.17916433
289.820979	9.874679	9.946299	10.053701	10.1790232
299.821122	9.874568	9.946554	10.053446	10.17887831
300.821265	9.874456	9.946808	10.053192	10.17873530
	Sine.	Tang.	Secant.	

48 Degrees.

Tangents and Secants.

41 Degrees.

Min. Sec.	Sine.	Tang.	Secant.	Sine.			
	Min. Sec.	Min. Sec.	Min. Sec.	Min. Sec.			
30	9.821265	9.874456	9.946805	10.053192	10.125544	10.178735	30
31	9.821407	9.874344	9.947063	10.052937	10.125656	10.178593	29
32	9.821550	9.874232	9.947317	10.052682	10.125767	10.178450	28
33	9.821693	9.874120	9.947572	10.052428	10.125879	10.178307	27
34	9.821835	9.874008	9.947826	10.052173	10.125991	10.178165	26
35	9.821977	9.873896	9.948081	10.051919	10.126103	10.178022	25
36	9.822120	9.873784	9.948335	10.051664	10.126216	10.177880	24
37	9.822262	9.873672	9.948590	10.051410	10.126328	10.177738	23
38	9.822404	9.873560	9.948844	10.051156	10.126440	10.177596	22
39	9.822546	9.873448	9.949099	10.050901	10.126552	10.177454	21
40	9.822688	9.873335	9.949353	10.050647	10.126665	10.177312	20
41	9.822830	9.873223	9.949607	10.050392	10.126777	10.177170	19
42	9.822972	9.873110	9.949862	10.050138	10.126900	10.177028	18
43	9.823114	9.872998	9.950116	10.049884	10.127002	10.176886	17
44	9.823255	9.872885	9.950370	10.049629	10.127115	10.176744	16
45	9.823397	9.872772	9.950625	10.049375	10.127228	10.176603	15
46	9.823539	9.872659	9.950879	10.049121	10.127341	10.176461	14
47	9.823680	9.872547	9.951133	10.048867	10.127453	10.176320	13
48	9.823821	9.872434	9.951388	10.048612	10.127566	10.176179	12
49	9.823963	9.872321	9.951642	10.048358	10.127679	10.176037	11
50	9.824104	9.872208	9.951896	10.048104	10.127792	10.175896	10
51	9.824245	9.872094	9.952150	10.047850	10.127905	10.175755	9
52	9.824386	9.871981	9.952404	10.047595	10.128019	10.175614	8
53	9.824527	9.871868	9.952659	10.047341	10.128132	10.175473	7
54	9.824658	9.871755	9.952913	10.047087	10.128245	10.175332	6
55	9.824808	9.871641	9.953167	10.046833	10.128359	10.175192	5
56	9.824949	9.871528	9.953421	10.046579	10.128472	10.175051	4
57	9.825090	9.871414	9.953675	10.046325	10.128586	10.174910	3
58	9.825230	9.871301	9.953929	10.046071	10.128699	10.174770	2
59	9.825370	9.871187	9.954183	10.045817	10.128813	10.174629	1
60	9.825511	9.871073	9.954437	10.045562	10.128926	10.174489	0
	Sine.	Tang.		Secant.			

48 Degrees.

A Table of Artificial Sines,

42 Degrees.

Min.	Sine.	Tang.	Secant.	Min.		
09.82551	9.871073	9.954437	10.045563	10.128926	10.174489	60
19.82565	9.870960	9.954691	10.045308	10.129040	10.174349	59
29.82579	9.870846	9.954945	10.045054	10.129154	10.174209	58
39.82593	9.870732	9.955199	10.044800	10.129268	10.174069	57
49.82607	9.870618	9.955453	10.044546	10.129382	10.173928	56
59.82621	9.870504	9.955707	10.044292	10.129496	10.173789	55
69.82635	9.870390	9.955961	10.044038	10.129610	10.173649	54
79.82649	9.870276	9.956215	10.043785	10.129724	10.173509	53
89.82663	9.870161	9.956469	10.043531	10.129839	10.173370	52
99.82677	9.870047	9.956723	10.043277	10.129953	10.173230	51
109.82691	9.869933	9.956977	10.043023	10.130067	10.173090	50
119.82704	9.869818	9.957231	10.042769	10.130182	10.172951	49
129.82718	9.869704	9.957485	10.042515	10.130296	10.172811	48
139.82732	9.869589	9.957739	10.042261	10.130411	10.172672	47
149.82746	9.869474	9.957993	10.042007	10.130526	10.172533	46
159.82760	9.869360	9.958246	10.041753	10.130640	10.172394	45
169.82774	9.869245	9.958500	10.041500	10.130755	10.172255	44
179.82788	9.869130	9.958754	10.041246	10.130870	10.172116	43
189.82802	9.869015	9.959008	10.040992	10.130985	10.171977	42
199.82816	9.868900	9.959262	10.040738	10.131100	10.171838	41
209.82830	9.868785	9.959515	10.040484	10.131215	10.171699	40
219.82843	9.868670	9.959770	10.040231	10.131330	10.171561	39
229.82857	9.868555	9.960023	10.039977	10.131445	10.171422	38
239.82871	9.868440	9.960277	10.039723	10.131560	10.171284	37
249.82885	9.868324	9.960530	10.039470	10.131676	10.171145	36
259.82899	9.868209	9.960784	10.039216	10.131791	10.171007	35
269.82913	9.868093	9.961038	10.038962	10.131907	10.170869	34
279.82926	9.867978	9.961291	10.038708	10.131022	10.170731	33
289.82940	9.867862	9.961545	10.038455	10.132138	10.170591	32
299.82954	9.867747	9.961799	10.038201	10.132253	10.170455	31
309.82968	9.867631	9.962052	10.037947	10.132369	10.170317	30
	Sine.	Tang.	Secant.	Min.		

47 Degrees.

Tangents and Secants. A

42 Degrees.

Min.	Sine.	Tang.	Secant.	Min.
30	9.829683	9.867631	9.962052	10.037947
31	9.829821	9.867515	9.962306	10.037694
32	9.829959	9.867399	9.962560	10.037440
33	9.830097	9.867283	9.962813	10.037187
34	9.830234	9.867167	9.963067	10.036933
35	9.830372	9.867051	9.963320	10.036680
36	9.830509	9.866935	9.963574	10.036426
37	9.830646	9.866819	9.963827	10.036172
38	9.830784	9.866703	9.964081	10.035919
39	9.830921	9.866587	9.964335	10.035665
40	9.831058	9.866470	9.964588	10.035412
41	9.831195	9.866353	9.964842	10.035158
42	9.831332	9.866237	9.965095	10.034905
43	9.831469	9.866120	9.965349	10.034651
44	9.831606	9.866004	9.965602	10.034399
45	9.831742	9.865887	9.965855	10.034144
46	9.831879	9.865770	9.966109	10.033891
47	9.832015	9.865653	9.966362	10.033638
48	9.832152	9.865536	9.966616	10.033384
49	9.832288	9.865419	9.966869	10.033131
50	9.832425	9.865302	9.967122	10.032877
51	9.832561	9.865185	9.967376	10.032624
52	9.832697	9.865068	9.967630	10.032371
53	9.832833	9.864950	9.967833	10.032117
54	9.832970	9.864833	9.968136	10.031864
55	9.833105	9.864716	9.968389	10.031611
56	9.833241	9.864598	9.968643	10.031357
57	9.833377	9.864481	9.968897	10.031104
58	9.833512	9.864363	9.969150	10.030851
59	9.833648	9.864245	9.969403	10.030597
60	9.833783	9.864127	9.969656	10.030344
	Sine.	Tang.	Secant.	Min.

47 Degrees.

T

A Table of Artificial Sines,

43 Degrees.

Min.	Sine.	Tang.	Secant.	Min.
0	9.833783	9.8641279	9.969656	10.135872
1	9.833919	9.8640109	9.969909	10.135990
2	9.834054	9.8638929	9.970162	10.136108
3	9.834189	9.8637749	9.970416	10.136226
4	9.834325	9.8636569	9.970669	10.136344
5	9.834460	9.8635389	9.970922	10.136462
6	9.834595	9.8634199	9.971175	10.136581
7	9.834730	9.8633019	9.971429	10.136699
8	9.834865	9.8631839	9.971682	10.136817
9	9.834999	9.8630649	9.971935	10.136936
10	9.835134	9.8629469	9.972188	10.137054
11	9.835269	9.8628279	9.972441	10.137173
12	9.835403	9.8627099	9.972694	10.137291
13	9.835538	9.8625909	9.972948	10.137410
14	9.835672	9.8624719	9.973201	10.137529
15	9.835807	9.8623539	9.973454	10.137647
16	9.835941	9.8622349	9.973707	10.137766
17	9.836075	9.8621159	9.973960	10.137885
18	9.836209	9.8619969	9.974213	10.138004
19	9.836343	9.8618779	9.974466	10.138123
20	9.836477	9.8617589	9.974719	10.138242
21	9.836611	9.8616389	9.974973	10.138362
22	9.836745	9.8615199	9.975226	10.138481
23	9.836878	9.8614009	9.975479	10.138600
24	9.837012	9.8612809	9.975732	10.138720
25	9.837146	9.8611619	9.975985	10.138839
26	9.837379	9.8610419	9.976238	10.138959
27	9.837412	9.8609219	9.976491	10.139078
28	9.837546	9.8608029	9.976744	10.139198
29	9.837679	9.8606829	9.976997	10.139318
30	9.837812	9.8605629	9.977250	10.139438
	Sine.	Tang.	Secant.	Min.

46 Degrees.

Tangents and Secants.

43 Degrees.

Min.	Sine.	Tang.	Secant.	Min.
30	9.837812	9.860562	9.977250	10.022750
31	9.837945	9.860442	9.977503	10.022497
32	9.838078	9.860322	9.977756	10.022244
33	9.838211	9.860202	9.978009	10.021991
34	9.838344	9.860082	9.978262	10.021738
35	9.838477	9.859962	9.978515	10.021485
36	9.838607	9.859842	9.978768	10.021232
37	9.838742	9.859721	9.979021	10.020979
38	9.838875	9.859601	9.979274	10.020726
39	9.83900	9.859480	9.979527	10.020473
40	9.839140	9.859360	9.979780	10.020220
41	9.839272	9.859239	9.980033	10.019967
42	9.839404	9.859119	9.980286	10.019714
43	9.839536	9.858998	9.980538	10.019461
44	9.839668	9.858877	9.980791	10.019209
45	9.839800	9.858756	9.981044	10.018956
46	9.839932	9.858635	9.981297	10.018703
47	9.840064	9.858514	9.981550	10.018450
48	9.840196	9.858393	9.981803	10.018197
49	9.840328	9.858272	9.982056	10.017944
50	9.840460	9.858150	9.982309	10.017691
51	9.840591	9.858029	9.982562	10.017438
52	9.840722	9.857908	9.982814	10.017185
53	9.840854	9.857786	9.983067	10.016933
54	9.840985	9.857665	9.983320	10.016680
55	9.841116	9.857543	9.983673	10.016427
56	9.841247	9.857421	9.983826	10.016174
57	9.841378	9.857300	9.984079	10.015921
58	9.841509	9.857178	9.984331	10.015668
59	9.841640	9.857056	9.984584	10.015416
60	9.841771	9.856934	9.984837	10.015163
	Sine.	Tang.	Secant.	

46 Degrees.

A Table of Artificial Sines,

44 Degrees.

Min.	Sine.	Tang.	Secant.	Min.
09.841771	9.856934	9.984837	10.143066	10.15822960
19.841902	9.856812	9.985090	10.143188	10.15809859
29.842033	9.856699	9.985343	10.143310	10.15796758
39.842163	9.856568	9.985596	10.143332	10.15783757
49.842294	9.856445	9.985848	10.143554	10.15770656
59.842424	9.856323	9.986101	10.143677	10.15757655
69.842555	9.856201	9.986354	10.143799	10.15744554
79.842685	9.856078	9.986607	10.143922	10.15731553
89.842815	9.855956	9.986860	10.144044	10.15718552
99.842946	9.855833	9.987112	10.144167	10.15705451
109.843076	9.855711	9.987365	10.144289	10.15692450
119.843206	9.855588	9.987618	10.144412	10.15679449
129.843336	9.855465	9.987871	10.144535	10.15666448
139.843465	9.855342	9.988123	10.144658	10.15653447
149.843594	9.855219	9.988376	10.144781	10.15640546
159.843725	9.855096	9.988629	10.144904	10.15627545
169.843855	9.854973	9.988818	10.145027	10.15614544
179.843984	9.854850	9.989134	10.145150	10.15601643
189.844114	9.854727	9.989387	10.145273	10.15588642
199.844243	9.854603	9.989640	10.145397	10.15575741
209.844372	9.854480	9.989893	10.145520	10.15562740
219.844502	9.854356	9.990140	10.145644	10.15549839
229.844631	9.854233	9.990398	10.145767	10.15536938
239.844760	9.854109	9.990651	10.145891	10.15524037
249.844886	9.853986	9.990903	10.146014	10.15511136
259.845018	9.853862	9.991156	10.146138	10.15498235
269.845147	9.853738	9.991409	10.146262	10.15485334
279.845276	9.853614	9.991662	10.146386	10.15472433
289.845404	9.853490	9.991914	10.146510	10.15459532
299.845533	9.853366	9.992167	10.146634	10.15446731
309.845662	9.853242	9.992420	10.146758	10.15433830
	Sine.	Tang.	Secant.	Min.

45 Degrees.

72

Tangents and Secants.

44 Degrees.

	Sine.	Tang.	Secant.	
30	9.845662	9.853242	9.992420	10.146758 10.154338
31	9.845790	9.853118	9.992672	10.007328 10.146882 10.154210
32	9.845919	9.852994	9.992925	10.007075 10.147006 10.154081
33	9.846047	9.852869	9.993178	10.006822 10.147131 10.153952
34	9.846175	9.852745	9.993430	10.006569 10.147255 10.153825
35	9.846304	9.852620	9.993083	10.006217 10.147380 10.153696
36	9.846432	9.852496	9.993936	10.006064 10.147504 10.153568
37	9.846551	9.852371	9.994189	10.005811 10.147629 10.153440
38	9.846688	9.852247	9.994441	10.005559 10.147750 10.153312
39	9.846816	9.852122	9.994694	10.005306 10.147878 10.153184
40	9.846944	9.851997	9.994947	10.005053 10.148003 10.153056
41	9.847074	9.851872	9.995199	10.004801 10.148128 10.152929
42	9.847199	9.851747	9.995452	10.004548 10.148253 10.152801
43	9.847327	9.851622	9.995705	10.004295 10.148378 10.152673
44	9.847454	9.851497	9.995957	10.004043 10.148503 10.152546
45	9.847582	9.851372	9.996210	10.003790 10.148628 10.152418
46	9.847709	9.851246	9.996463	10.003537 10.148753 10.152291
47	9.847836	9.851121	9.996715	10.003285 10.148879 10.152163
48	9.847964	9.850996	9.996668	10.003032 10.149004 10.152036
49	9.848091	9.850870	9.997221	10.002779 10.149130 10.151909
50	9.848218	9.850745	9.997473	10.002527 10.149255 10.151782
51	9.848345	9.850619	9.997726	10.002274 10.149381 10.151655
52	9.848472	9.850493	9.997979	10.002021 10.149507 10.151528
53	9.848599	9.850367	9.998231	10.001769 10.149632 10.151401
54	9.848726	9.850242	9.998484	10.001516 10.149758 10.151274
55	9.848852	9.850116	9.998737	10.001263 10.149884 10.151148
56	9.848979	9.849990	9.998989	10.001011 10.150010 10.151021
57	9.849106	9.849864	9.999242	10.000758 10.150136 10.150894
58	9.849232	9.849737	9.999495	10.000505 10.150262 10.150768
59	9.849359	9.849611	9.999747	10.000253 10.150389 10.150641
60	9.849485	9.849485	10.000000	10.000000 10.150515 10.150515
	Sine.	Tang.	Secant.	

45 Degrees.

Min. 10



Of the Nature and Use of the Table of Logarithms.

IT will be convenient to say something of their Nature and Origen, which is from hence.

If to a Rank of continual Proportionals in a Geometric Progression from Unity. Suppose,

1, 2, 4, 8, 16, 32, 64, &c.

We accommodate a Rank of Exponents in an Arithmetick Progression, from 0. Suppose,

0, 1, 2, 3, 4, 5, &c.

It will be manifest, that for every Multiplication or Division of the Terms in the Geometric Progression one by another, there is an answerable Addition or Subduction of the Exponents.

For, as in the Terms of the Geometrical Progression, 4, Multiplied by 8, makes 32. So in the Exponents or Arithmetical Progression; if to 2, the Exponent of 4, there be added 3, the Exponent of 8, it makes 5 the Exponent of 32 the Product; and as 32 divided by 8, gives 4 for the Quotient; so if from 5 the Exponent of 32, we subtract 3 the Exponent of 8, the Remainder is 2 the Exponent of 4 the Quotient.

Terms in Geometrical Prog. 1, 2, 4, 8, 16, 32, 64, &c.

Terms in Arithm. Prog. or Expon. 0, 1, 2, 3, 4, 5, 6, &c.

$$4 \times 8 = 32$$

$$32 = 4$$

$$8$$

$$2 + 3 = 5$$

$$5 - 3 = 2$$

$$2$$

And the same holds if between any two of those Terms, we interpose one or more Geometric mean Proportionals, and between their Exponents as many Arithmetick means.

For

For if between 4 and 8 (or between 2 and 16) we interpose a Geometric Mean $\sqrt[4]{32}$, that is, $4\sqrt[4]{2}$, and between 2 and 3 (or 1 and 4) An Arithmetick Mean $2\frac{1}{2}$ then as $4\sqrt[4]{2} \times 8$ makes $32\sqrt[4]{2}$ (a mean Proportional between 32 and 64) so adding their Exponents $2\frac{1}{4}$ and 3 makes $5\frac{1}{4}$ an Arithmetick Mean between 5 and 6, and Universally (whatever be the values of r, e,) supposing.

The Terms. I. r. II. rr. III. r. r. r. &c.
Exponents. o. e. 2e. 3e. 4e. 5e. 6e. &c.

Then as $rr \times r = r^3$ & $\sqrt{rr} \times r = r^{\frac{5}{2}}$

So $2e \times 3e = 5e$ & $2\frac{1}{4}e \times 3e = 5\frac{1}{4}e$.

And so every where, and if for o, e, 2e, 3e, &c.

We take (supposing e = 1) o, 1, 2, 3, 4, &c. then doth this Exponent always give us the Number of Ratios or Dimensions in the Terms to which it belongs, that is how often the Ratio is Multiplied into it self continually to produce that Term to which it belongs.

2 3 4 5 6
I. r. r. r. r. r. &c.
o. 1. 2. 3. 4. 5. 6. &c.

(as 3 in r^3 . 6 in r^6 . and so every where) or shews how many Fold the Proportion of r^o to 1. is of r to 1. That is, how many Ratios of r to 1 makes r^o to 1. viz. 6. to which the Name of Logarithms fitly answers, which is derived from a Greek Word signifying The Number of Proportions so compounded.

Now this being the Foundation from whence the invention of Logarithms is deduced. It was in the next place proper to take such a Rank of Geometrical Progressional as was most accommodate to our way of Notation of Numbers, where places are in a Decuple Order. viz.

Terms. I. 10. 100. 1000. 10000. 100000. 1000000. &c.
Exp. o. 1. 2. 3. 4. 5. 6. &c.



Or thus.

1	0.0000000
10	1.0000000
100	2.0000000
1000	3.0000000
10000	4.0000000
100000	5.0000000
1000000	6.0000000

Now since 0, is the Log. of 1, and 1 of 10, therefore all Logarithms between 1 and 10, will be only a Decimal Fraction ; that is, there will be 0 on the left hand the Point, that is, in the place of Units ; and for the same reason, since the Log. of 10 is 1, and of 100, 2. Therefore all the Numbers between 10 and 100. will have 1 in the Place of Units, and a Decimal Fraction annexed ; all Numbers between 100 and 1000 will have 2 in the Place of Units, and a Decimal annexed ; between 1000 and 10000. 3 in the place of Units and a Decimal annexed, &c.

That Number which stands in the Place of Units is called the Characteristic, and serves to shew the Number of Places of that Number of which it is a Logarithm, viz. One more than is express by that digit of the Log. standing in the place of Units.

So if 0 stand in the place of Units in the Logarithm, the Logarithm is the Logarithm of a Number that consists but of one place, viz. between 1 and 10.

If 1 be the Characteristic of the Logarithm, it belongs to a Number between 10 and 100, viz. of two places. If 2 be the Characteristic, the Number hath 3 places, viz. between 100 and 1000, &c.

Or which comes to the same thing, the Characteristic gives you the distance of the highest place in the Number from Unity. For Example.

385. Five stands in the place of Units, 8 in the 1st. from Unity, and therefore its Exponent is 1, 3 stands in the 2d place from Unity, and therefore its Exponent is 2.

But since 0 is the Exponent or Logarithm of 1, therefore all Fractions will have the Exponent of their Logarithm. Negative,

As for instance of this Decimal Fraction, 0095 its Exponent or Characteristic shall be 3, which shews that the highest Figure here, is distant from the place of Units by 3, viz. on the right hand from Unity, as the dist. of the highest Fig. of this Number, 9500 would have been + 3. Therefore when the Characteristic is affirmative, 'tis the Logarithm of a whole Number, or of a mixt Number. But when Negative, 'tis the Logarithm of a *Fraction*.

From what hath been said you may easily perceive the reason why the Addition of the Logarithms answers to the Multiplication of the Numbers they are Logarithms of; and that the Subtraction of Logarithms or Diff. of the Log. so found Answers to the Quotient resulting from the Division of the Correspondent Numbers.

The way of finding the intermediate Logarithms between 1 and 10, between 10 and 100, &c. since 'tis shewed in several other Treatises, I shall omit, and will now proceed to shew you how to use the Table already made, whose use consists of these 2 Parts.

1. A Number being given to find its Logarithm.
2. A Logarithm being given to find its Correspondent Numbers.

In the first Page of this Table is contained the Logarithms of all Numbers to 100 with their Characteristics prefixt to them.

Thus against the Number 39 is its Log. 1.591064
against 86 is its Log. 1.934498

The left hand Column of each following Page contains Numbers increasing in their Natural Order from 100 to 999, and in the next Column to it, having 0 on the Head, and against any Num. between those limits is the Decimal Part of the Logarithm requir'd, to which you must annex its proper Index.

For instance, suppose I would find the Logarithm of 765. I look for 765 in the left hand Column, and against it in the Co-

Column under 0, is, 283661, to which if I prefix its proper Index 2. and it becomes 2.883661.

Thus the Logarithms of $\begin{cases} 126 \\ 520 \\ 172 \end{cases}$ are $\begin{cases} 2.100370 \\ 2.716003 \\ 2.235528 \end{cases}$

The other 5 Columns of each Page contains the Logarithms of all Numbers from 1000 to 9999. Those on the left hand Page, are distinguished on the top with the Figures 0, 1, 2, 3, 4. these on the right hand with 5, 6, 7, 8, 9.

To find the Logarithm of a Number consisting of 4 places; as suppose 3759, I look for the 3 first Figures under Num. in the left hand Column, and for the last at the Top: Then in that Column under the last Fig. and against the 3 first Figures in the left hand Column is the Decimal of the Log. w.z. 573072. To which prefixing its proper Index 3, it becomes, 3.573072.

And thus the Log. of $\begin{cases} 375.9 \\ 37.59 \\ 3.759 \\ 3759 \\ 03759 \end{cases}$ is $\begin{cases} 2.573072 \\ 1.573072 \\ 0.573072 \\ 1.573072 \\ 2.573072 \end{cases}$

Now Since 0 is the Logarithm of 1, the Logarithm of all Fractions must be Negative, but may be express after two different ways, either so, as that the Note of Negation may affect the whole Logarithm, or only the Characteristic, leaving the Decimal part of the Logarithm to be understood as affirmative.

For Example $\frac{3}{8}$ or which is Equivalent to .375 this Fraction supposes the Numerator 3 to be divided by the Denominator 8, which in Logarithms is Log. 3. 0.4771212 to be perform'd by Subtracting Log. 8. 0.9030899 the Log. of 8. from that of 3. Log. $\frac{3}{8}$ — 0.4259687 and the Remainder will be the Logarithm of $\frac{3}{8}$ which will then be the Negative Quantity — 0.4259687 or according to the former Method the Log. of $\frac{3}{8}$ = 0.375 is — 1.5740312. Where the Index only is Negative, and Deci-

mal Affirmative. Now though these two Expressions seem different they are really the same. For,

$$\begin{array}{r} -1.000009 \\ + 0.5740312 \\ \hline \text{is} = -0.4259687. \end{array}$$

Now if a Logarithm be given, and 'tis requir'd to find the Absolute Number thereto belonging.

The Characteristic serves only to shew you of how many Places it consists.

Rule.

Reject the Characteristic, and look for the Decimal Part in the Table, which if you find it not exact, take the nearest, and the Number answering to that Decimal Part is the Number required. Only let this be observed that you take only so many places of this Number so found from the left hand, as is one more than the Index or Characteristic of your Logarithm. Those Figures (if any be) that remain are Decimal Parts.

Thus Number answering to the Log. $\left. \begin{array}{r} 3.072617 \\ 2.072617 \\ 1.072617 \\ 0.072617 \end{array} \right\}$ is $\left. \begin{array}{r} 1182 \\ 118.2 \\ 11.82 \\ 1.182 \end{array} \right\}$

Of the Use of the Table of Logarithms, Sines, Tangents, and Secants.

1. Every Page is divided into 8 Columns, the first and last of which contains the Minutes of every Degree, and the other Six the Logarithm Sines, Tangents, and Secants, of those Degrees and Minutes.

2. The $\left. \begin{array}{r} \text{Left} \\ \text{Right} \end{array} \right\}$ hand Col. of each P. $\left. \begin{array}{r} \text{Under} \\ \text{Over} \end{array} \right\}$ Min. at the $\left. \begin{array}{r} \text{Head} \\ \text{Foot} \end{array} \right\}$

Of the Tab. contains the Min. of those Degrees $\left. \begin{array}{r} \text{Less} \\ \text{More} \end{array} \right\}$ than 45° And

And increase in their $\begin{cases} \text{Descent} \\ \text{Ascent} \end{cases}$ from 0 to 60 Minutes.

To find the Sine, Tangent and Secant, of any Degree and Minute given.

Rule.

If the Degrees be $\begin{cases} \text{Less} \\ \text{More} \end{cases}$ than 45 Deg. they are found in those Columns which have the words Sine, Tangent, Secant. at the $\begin{cases} \text{Head} \\ \text{Foot} \end{cases}$ of the Table.

Example.

Suppose the Sine, Tangent and Secant of 7 Degrees, 29 Minutes were required.

Look for 7 Degrees on the top of the Table, and in the first Column of the left hand Page you'll find 29 under Min. against which and under Sine, you'll find 9.114737. Under Tangent you'll find 9.118452. Under Secant you'll find 10.003715. Which are the Log. Sine, Tangent, and Secant, Required.

And a Sine, Tangent, or Secant, being given to find the Degrees and Minutes belonging to it is but the Reverse, and therefore I shall forbear any farther instances.

It remains now that I shew you how from the Logarithm Sine, Tangent, Secant; to find the natural Sine, Tangent, and Secant.

The Index to the Radius of the Table of Logarithms, Sines, &c. is 10, and consequently the Natural Number answering to it is of 11 places, *viz.* 10000000000. If this Radius and all the Natural Sines, &c. to this Radius were divided by a Million, or which is the same six places cut off, the Radius will become 10000. and the Figures remaining in the Sines, Tangents, &c. shall be Sines, Tangents, &c. to the Radius 10000, *viz.* so far as this Table of Logarithms goes, which will be effected in this Table of Logarithms, Sines, &c. by subtracting always 6 from the Exponent, and then the Remainder will be Logarithm a Natural Number expressing the Sine, Tangent, and Secant to the Radius 10000, which may be found by the Table of Logarithm.

For instance, having the Log. Sine, Tangent and Secant of 37. 30. in the Table, to find from thence the natural Sine, Tangent and Secant to the Rad. 10000.

Log. Sine.	Log. Tangent	Log. Secant
9.784447.	9.884980.	10.100533

Substracting 5 from the Exponent.

they become

3.784447.	3.884980.	4.100533
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Which Logarithms look'd for in the Table, the Natural Numbers answering them, are,

Nat. Sine.	Nat. Tangent.	Nat. Secant.
6087	7673	12600

Of such parts of which the Radius contains 10000.



F I N I S.

